

**VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2**  
**VGN-A600/A600B/A600P/A690**  
**VGN-A317M/A317S/A397XP**

# SERVICE MANUAL

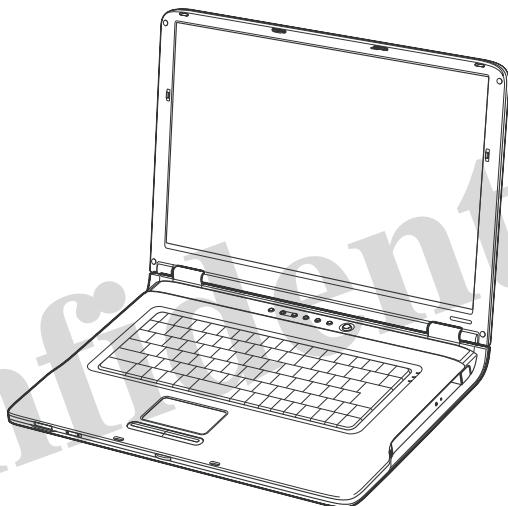
Ver 3 -2005A

## Revision History

Area	Model	Line up
Japanese	Japanese	VGN-A62B VGN-A72PB VGN-A72PS1* VGN-A72PS2* VGN-A72S1* VGN-A72S2*
American	US Canadian	VGN-A600* VGN-A600B* VGN-A600P* VGN-A690
European	AEP UK	VGN-A317M VGN-A317S VGN-A397XP

\*: CTO Model

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The Standard for  
Wireless Fidelity.



- Design and specifications are subject to change without notice.
- 本機の仕様および外観は、改良のため予告なく変更することがあります、ご了承ください。

**PERSONAL COMPUTER**

**SONY**®

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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

**Caution Markings for Lithium/Ion Battery** - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

**CAUTION:** The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly.

Keep away from children.

**CAUTION:** Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

## **Service and Inspection Precautions**

### **1. Obey precautionary markings and instructions**

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

### **2. Use designated parts only**

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the  $\triangle$  mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

### **3. Always follow the original design when mounting parts and routing wires**

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

### **4. Inspect after completing service**

After servicing, inspect to make sure that all

screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

### **5. When replacing chip components...**

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

### **6. When handling flexible print boards...**

- The temperature of the soldering-iron tip should be about 270C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

## **ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE  
MARQUE  $\triangle$  SUR LES DIAGRAMMES  
SCHÉMATIQUES ET LA LISTE DES PIÈCES  
SONT CRITIQUES POUR LA SÉCURITÉ DE  
FONCTIONNEMENT. NE REMPLACER CES  
COMPOSANTS QUE PAR DES PIÈCES SONY  
DONT LES NUMÉROS SONT DONNÉS DANS  
CE MANUEL OU DANS LES SUPPÉMENTS  
PUBLIÉS PAR SONY.**

**Confidential**

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
VGN-A600/A600B/A600P/A690 (AM)  
VGN-A317M/A317S/A397XP (EU)

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<p>変更履歴は、"Revision History"として、本データ末に記載しております。</p>					

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VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
 VGN-A600/A600B/A600P/A690 (AM)  
 VGN-A317M/A317S/A397XP (EU)

# CHAPTER 1.

## SPECIFICATIONS

### 1-1. Specifications

J						
	VGN-A72PB	VGN-A62B	VGN-A72PS1*	VGN-A72PS2*	VGN-A72S1*	VGN-A72S2*
CPU	PM/Do/760/2GHz	PM/Do/740/1.73GHz	*1)	*1)	*1)	*1)
Graphic	Mobility Radeon X600					
LCD	17.0"WXGA+(Clear Black)					
HDD	100GB	100GB	*2)	*2)	*2)	*2)
Memory	512MB/DDR2/400*1	512MB/DDR2/400*1	*3)	*3)	*3)	*3)
QUANTITY(STANDARD/MAX)	512MB/2GB	512MB/2GB				
OPT-DRIVE	DVD Multi Drive	DVD Multi Drive	DVD Multi Drive Combo			
AC ADAPTOR	AC19V7	AC19V7	AC19V7/AC19V10	AC19V7/AC19V10	AC19V7/AC19V10	AC19V7/AC19V10
BATTERY	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA
Wireless LAN	802.11a/b/g	802.11b/g	802.11a/b/g	802.11a/b/g	802.11a/b/g	802.11a/b/g
Bluetooth	X	X	X	X	X	X
AV PR	○	○	○/X	○/X	○/X	○/X
Audio PR	X	X	X	X	X	X
W-Mouse	○	○	○	○	○	○
Memory Card Adapter	○	○	○	○	○	○
Remote Controller	○	○	○/X	○/X	○/X	○/X
OS	XP Pro	XP Home	XP Pro	XP Pro	XP Home	XP Home

\*1)PM/Do/770/2.13GHz,PM/Do/750/1.86GHz,PM/Do/730/1.60GHz,CeIM/Do/360/1.40GHz

\*2)100GB,80GB,60GB

\*3)1GB\*2,512MB\*2,256MB\*2

AM				
	VGN-A690	VGN-A600P*	VGN-600B*	VGN-A600*
CPU	PM/Do/750/1.86GHz	*4)	*4)	*4)
Graphic	Mobility Radeon X600	Mobility Radeon X600	Mobility Radeon X600	Mobility Radeon X600
LCD	17.0"WXGA+(Clear Black)	17.0"WXGA+(17.0"WXGA+*)	17.0"WXGA2/(17.0"WXGA+*)	17.0"WXGA/(17.0"WXGA+*)
HDD	100GB	*5)	*5)	*5)
Memory	512MB/DDR2/400*2	*6)	*6)	*6)
QUANTITY(STANDARD/MAX)	512MB/2GB			
OPT-DRIVE	DVD+/-RW	DVD+/-RW Combo	DVD+/-RW Combo	DVD+/-RW Combo
AC ADAPTOR	AC19V7	AC19V7/AC19V10	AC19V7/AC19V10	AC19V7/AC19V10
BATTERY	BP2EA	BP2EA	BP2EA	BP2EA
Wireless LAN	802.11a/b/g	802.11a/b/g,802.11b/g(Intel)	802.11a/b/g,802.11b/g(Intel)	802.11a/b/g,802.11b/g(Intel)
Bluetooth	X	○/X	○/X	○/X
AV PR	○	○/X	○/X	○/X
Audio PR	X	X	X	X
W-Mouse	X	○/X	○/X	○/X
Memory Card Adapter	X	X	X	X
Remote Controller	○	○/X	○/X	○/X
OS	XP Home	XP Pro	XP Pro(SMB)	XP Home

△[MA] \*4)PM/Do/770/2.13GHz,PM/Do/760/2GHz,PM/Do/750/1.86GHz,PM/Do/740/1.73GHz,PM/Do/730/1.60GHz,CeIM/Do/360/1.40GHz

△[MA] \*5)100GB,80GB,60GB,40GB

△[MA] \*6)1GB\*2,1GB\*1,512MB\*2,512MB\*2,256MB\*2,256MB\*1

• The trademarks or registered trademarks of above table, refer to page 2.

• The model that is accompanied by asterisk (\*) is the CTO model

For the equipment configuration, refer to the CTO Information.

• 本表中の商標・登録商標については、2ページをご参照ください。

• 機種名に(\*)がつくのは CTO モデルです。

組み合わせについては、CTO Information ご確認ください。

EU			
	VGN-A397XP	VGN-A317S	VGN-A317M
CPU	PM/Da/760/2GHz	PM/Da/750/1.86GHz	PM/Da/740/1.73GHz
Graphic	Mobility Radeon X600	Mobility Radeon X600	Mobility Radeon X600
LCD	17.0"WUXGA" (Clear Black)	17.0"WXGA+" (Clear Black)	17.0"WXGA+" (Clear Black)
HDD	80GB	100GB	80GB
Memory	512MB/DDR2/400*1	256MB/DDR2/400*2	256MB/DDR2/400*2
QUANTITY(STANDARD/MAX)	512MB/2GB	256MB/2GB	256MB/2GB
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW
AC ADAPTOR	AC19V10	AC19V7	AC19V10
BATTERY	BP2EA	BP2EA	BP2EA
Wireless LAN	802.11b/g	802.11b/g	802.11b/g
Bluetooth	○	○	○
AV PR	X	○	X
Audio PR	X	X	X
W-Mouse	○	○	○
Memory Card Adapter	X	X	X
Remote Controller	X	○	X
OS	XP Pro	XP Home	XP Home

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VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
**VGN-A600/A600B/A600P/A690 (AM)**  
 VGN-A317M/A317S/A397XP (EU)

## 1-2. CTO Information

### 1. Model name:PCG-8S1N

Model number:VGN-A72PS1

Product Code:

Serial number:

OS:Windows XP Pro

Ver.1.0

CPU	PM/Do/770/2.13GHz 6-707-261-01 IC RH80536GE0462MSL7SL	PM/Do/750/1.86GHz 6-707-259-01 IC RH80536GE0362MSL7S9	PM/Do/730/1.60GHz 6-707-252-01 IC RH80536GE0252MSL86G	CeIM/Do/360/1.40GHz 6-707-715-01 IC RH80536NC0171M-J
HDD	100GB A-1105-612-A HDD (100GB,HTS541010G9SA00)	80GB A-1108-510-A HDD(MHT2080-80GB)	60GB A-1108-509-A HDD(MHT2060-60GB)	
LCD	17"WXGA A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)			
Memory	1GB*2 6-707-504-01 IC HYS64T128021HDL-5-A	512MB*2 6-707-350-01 IC HYS64T64020HDL-5-A	256MB*2 6-707-352-01 IC HYS64T32000HDL-5-A	
Opt.Drive	Super Multi*/+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-21 COMBO DRIVE(UJDA760)		
W-LAN	802.11a/b/g(Intel) 1-789-095-21 WIRELESS LAN CARD			
Memory Card AD	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			

### 2. Model name:PCG-8S1N

Model number:VGN-A72PS2

Product Code:

Serial number:

OS:Windows XP Pro

Ver.1.0

CPU	PM/Do/770/2.13GHz 6-707-261-01 IC RH80536GE0462MSL7SL	PM/Do/750/1.86GHz 6-707-259-01 IC RH80536GE0362MSL7S9	PM/Do/730/1.60GHz 6-707-252-01 IC RH80536GE0252MSL86G	CeIM/Do/360/1.40GHz 6-707-715-01 IC RH80536NC0171M-J
HDD	100GB A-1105-612-A HDD (100GB,HTS541010G9SA00)	80GB A-1108-510-A HDD(MHT2080-80GB)	60GB A-1108-509-A HDD(MHT2060-60GB)	
LCD	17"WXGA+ A-1087-141-A LCD UNIT (17WXGA) (S)			
Memory	1GB*2 6-707-504-01 IC HYS64T128021HDL-5-A	512MB*2 6-707-350-01 IC HYS64T64020HDL-5-A	256MB*2 6-707-352-01 IC HYS64T32000HDL-5-A	
Opt.Drive	Super Multi*/+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-21 COMBO DRIVE(UJDA760)		
W-LAN	802.11a/b/g(Intel) 1-789-095-21 WIRELESS LAN CARD			
Memory Card AD	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			

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3. Model name:PCG-8S1N  
 Model number:VGN-A72S1  
 Product Code:  
 Serial number:  
 OS:Windows XP Home  
 Ver.1.0

CPU	PM/Do/770/2.13GHz 6-707-261-01 IC RH80536GE0462MSL7SL	PM/Do/750/1.86GHz 6-707-259-01 IC RH80536GE0362MSL7S9	PM/Do/730/1.60GHz 6-707-252-01 IC RH80536GE0252MSL86G	CeIM/Do/360/1.40GHz 6-707-715-01 IC RH80536NC0171M-J
HDD	100GB A-1105-612-A HDD (100GB,HTS541010G9SA00)	80GB A-1108-510-A HDD(MHT2080-80GB)	60GB A-1108-509-A HDD(MHT2060-60GB)	
LCD	17"WXGA A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)			
Memory	1GB*2 6-707-504-01 IC HYS64T128021HDL-5-A	512MB*2 6-707-350-01 IC HYS64T64020HDL-5-A	256MB*2 6-707-352-01 IC HYS64T32000HDL-5-A	
Opt.Drive	Super Multi//+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-21 COMBO DRIVE(UJDA760)		
W-LAN	802.11a/b/g(Intel) 1-789-095-21 WIRELESS LAN CARD			
Memory Card AD	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			

4. Model name:PCG-8S1N  
 Model number:VGN-A72S2  
 Product Code:  
 Serial number:  
 OS:Windows XP Home  
 Ver.1.0

CPU	PM/Do/770/2.13GHz 6-707-261-01 IC RH80536GE0462MSL7SL	PM/Do/750/1.86GHz 6-707-259-01 IC RH80536GE0362MSL7S9	PM/Do/730/1.60GHz 6-707-252-01 IC RH80536GE0252MSL86G	CeIM/Do/360/1.40GHz 6-707-715-01 IC RH80536NC0171M-J
HDD	100GB A-1105-612-A HDD (100GB,HTS541010G9SA00)	80GB A-1108-510-A HDD(MHT2080-80GB)	60GB A-1108-509-A HDD(MHT2060-60GB)	
LCD	17"WXGA+ A-1087-141-A LCD UNIT (17WXGA) (S)			
Memory	1GB*2 6-707-504-01 IC HYS64T128021HDL-5-A	512MB*2 6-707-350-01 IC HYS64T64020HDL-5-A	256MB*2 6-707-352-01 IC HYS64T32000HDL-5-A	
Opt.Drive	Super Multi//+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-21 COMBO DRIVE(UJDA760)		
W-LAN	802.11a/b/g(Intel) 1-789-095-21 WIRELESS LAN CARD			
Memory Card AD	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			

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VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
 VGN-A600/A600B/A600P/A690 (AM)  
 VGN-A317M/A317S/A397XP (EU)

5. Model name:PCG-8S1L,PCG-8S2L,PCG-8S3L,PCG-8S4L,PCG-8S5L,PCG-8S6L

Model number:VGN-A600P

OS:Windows XP Pro

Ver.1.0

CPU	PM/Do770/2.13GHz 6-707-261-01 IC RH80536GE0462MSL7SL(PM-DO 2.13)	PM/Do760/2GHz 6-707-260-1 IC RH80536GE0412MSL7SM(PM-DO2.0)	PM/Do750/1.86GHz 6-707-259-01 IC RH80536GE0362MSL7S9(PM-DO1.86)	PM/Do740/1.73GHz 6-707-258-01 IC RH80536GE0302MSL7SA(PM-DO1.73)	PM/Do730/1.60GHz 6-707-252-01 IC RH80536GE0252MSL86G(PM-DO 1.60)	CeIM/Do360/1.40GHz 6-707-715-01 IC RH80536NC0171MSL86K (CM-DO 1.4)
HDD	100GB A-1105-612-A HDD (100GB,HTS541010G9SA00)	80GB A-1108-510-A HDD(MHT2080-80GB)	60GB A-1108-509-A HDD(MHT2060-60GB)	40GB A-1109-275-A HDD(MHT2040-40GB)		
LCD	17.0WXGA/HC A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)	17.0WXGA+HC A-1087-141-A LCD UNIT (17WXGA)				
Memory	1GB*2 6-707-504-01 IC HYS64T128021HDL-5-A(1GB)	1GB 6-707-504-01 IC HYS64T128021HDL-5-A(1GB)	512MB*2 6-707-350-01 IC HYS64T64020HDL-5-A(512MB)	512MB 6-707-350-01 IC HYS64T64020HDL-5-A(512MB)	256MB*2 6-707-350-01 IC HYS64T32000HDL-5-A(256MB)	256MB 6-707-350-01 IC HYS64T32000HDL-5-A(256MB)
Opt.Drive	DVD+-RW/12.7x8+DL 8-457-624-90 DRIVE, DVD DW-D56A-V2	Combo/12.7x24 1-797-053-21 COMBO DRIVE(UJDA760)				
W-LAN	802.11a/b/g (Intel) 1-789-095-11 WIRELESS LAN CARD	802.11b/g (Intel) 1-761-864-15 WIRELESS LAN CARD				
TV Tuner (Port Replicator)	PRAV1	None				
Mouse	WMS5 1-796-824-32 Mouse(SLV)	None				

6. Model name:PCG-8S1L,PCG-8S2L,PCG-8S3L,PCG-8S4L,PCG-8S5L,PCG-8S6L

Model number:VGN-A600B

OS:Windows XP Pro(SMB)

Ver.1.0

CPU	PM/Do770/2.13GHz 6-707-261-01 IC RH80536GE0462MSL7SL(PM-DO 2.13)	PM/Do760/2GHz 6-707-260-1 IC RH80536GE0412MSL7SM(PM-DO2.0)	PM/Do750/1.86GHz 6-707-259-01 IC RH80536GE0362MSL7S9(PM-DO1.86)	PM/Do740/1.73GHz 6-707-258-01 IC RH80536GE0302MSL7SA(PM-DO1.73)	PM/Do730/1.60GHz 6-707-252-01 IC RH80536GE0252MSL86G(PM-DO 1.60)	CeIM/Do360/1.40GHz 6-707-715-01 IC RH80536NC0171MSL86K (CM-DO 1.4)
HDD	100GB A-1105-612-A HDD (100GB,HTS541010G9SA00)	80GB A-1108-510-A HDD(MHT2080-80GB)	60GB A-1108-509-A HDD(MHT2060-60GB)	40GB A-1109-275-A HDD(MHT2040-40GB)		
LCD	17.0WXGA/HC A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)	17.0WXGA+HC A-1087-141-A LCD UNIT (17WXGA)				
Memory	1GB*2 6-707-504-01 IC HYS64T128021HDL-5-A(1GB)	1GB 6-707-504-01 IC HYS64T128021HDL-5-A(1GB)	512MB*2 6-707-350-01 IC HYS64T64020HDL-5-A(512MB)	512MB 6-707-350-01 IC HYS64T64020HDL-5-A(512MB)	256MB*2 6-707-350-01 IC HYS64T32000HDL-5-A(256MB)	256MB 6-707-350-01 IC HYS64T32000HDL-5-A(256MB)
Opt.Drive	DVD+-RW/12.7x8+DL 8-457-624-90 DRIVE, DVD DW-D56A-V2	Combo/12.7x24 1-797-053-21 COMBO DRIVE(UJDA760)				
W-LAN	802.11a/b/g (Intel) 1-789-095-11 WIRELESS LAN CARD	802.11b/g (Intel) 1-761-864-15 WIRELESS LAN CARD				
TV Tuner (Port Replicator)	PRAV1	None				
Mouse	WMS5 1-796-824-32 Mouse(SLV)	None				

▲ [MA]

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7. Model name:PCG-8S1L,PCG-8S2L,PCG-8S3L,PCG-8S4L,PCG-8S5L,PCG-8S6L

Model number:VGN-A600

OS:Windows XP Home

Ver.1.0

<b>CPU</b>	<b>PM/Do770/2.13GHz</b> 6-707-261-01 IC RH80536GE0462MSL7SL(PM-DO 2.13)	<b>PM/Do760/2GHz</b> 6-707-260-1 IC RH80536GE0412MSL7SM(PM-DO2.0)	<b>PM/Do750/1.86GHz</b> 6-707-259-01 IC RH80536GE0362MSL7S9(PM-DO1.86)	<b>PM/Do740/1.73GHz</b> 6-707-258-01 IC RH80536GE0302MSL7SA(PM-DO1.73)	<b>PM/Do730/1.60GHz</b> 6-707-252-01 IC RH80536GE0252MSL86G(PM-DO 1.60)	<b>CeIM/Do360/1.40GHz</b> 6-707-715-01 IC RH80536NC0171MSL86K (CM-DO 1.4)
<b>HDD</b>	<b>100GB</b> A-1105-612-A HDD (100GB,HTS541010G9SA00)	<b>80GB</b> A-1108-510-A HDD(MHT2080-80GB)	<b>60GB</b> A-1108-509-A HDD(MHT2060-60GB)	<b>40GB</b> A-1109-275-A HDD(MHT2040-40GB)		
<b>LCD</b>	<b>17.0WXGA+HC</b> A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)	<b>17.0WXGA+HC</b> A-1087-141-A LCD UNIT (17WXGA)				
<b>Memory</b>	<b>1GB*2</b> 6-707-504-01 IC HYS64T128021HDL-5-A(1GB)	<b>1GB</b> 6-707-504-01 IC HYS64T128021HDL-5-A(1GB)	<b>512MB*2</b> 6-707-350-01 IC HYS64T64020HDL-5-A(512MB)	<b>512MB</b> 6-707-350-01 IC HYS64T64020HDL-5-A(512MB)	<b>256MB*2</b> 6-707-350-01 IC HYS64T32000HDL-5-A(256MB)	<b>256MB</b> 6-707-350-01 IC HYS64T32000HDL-5-A(256MB)
<b>Opt.Drive</b>	<b>DVD+-RW/12.7x8+DL</b> 8-457-624-90 DRIVE, DVD DW-D56A-V2	<b>Combo/12.7x24</b> 1-797-053-21 COMBO DRIVE(UJDA760)				
<b>W-LAN</b>	<b>802.11a/b/g (Intel)</b> 1-789-095-11 WIRELESS LAN CARD	<b>802.11b/g (Intel)</b> 1-761-864-15 WIRELESS LAN CARD				
<b>TV Tuner (Port Replicator)</b>	<b>PRAV1</b>	<b>None</b>				
<b>Mouse</b>	<b>WMS5</b> 1-796-824-32 Mouse(GLV)	<b>None</b>				

△[MA]

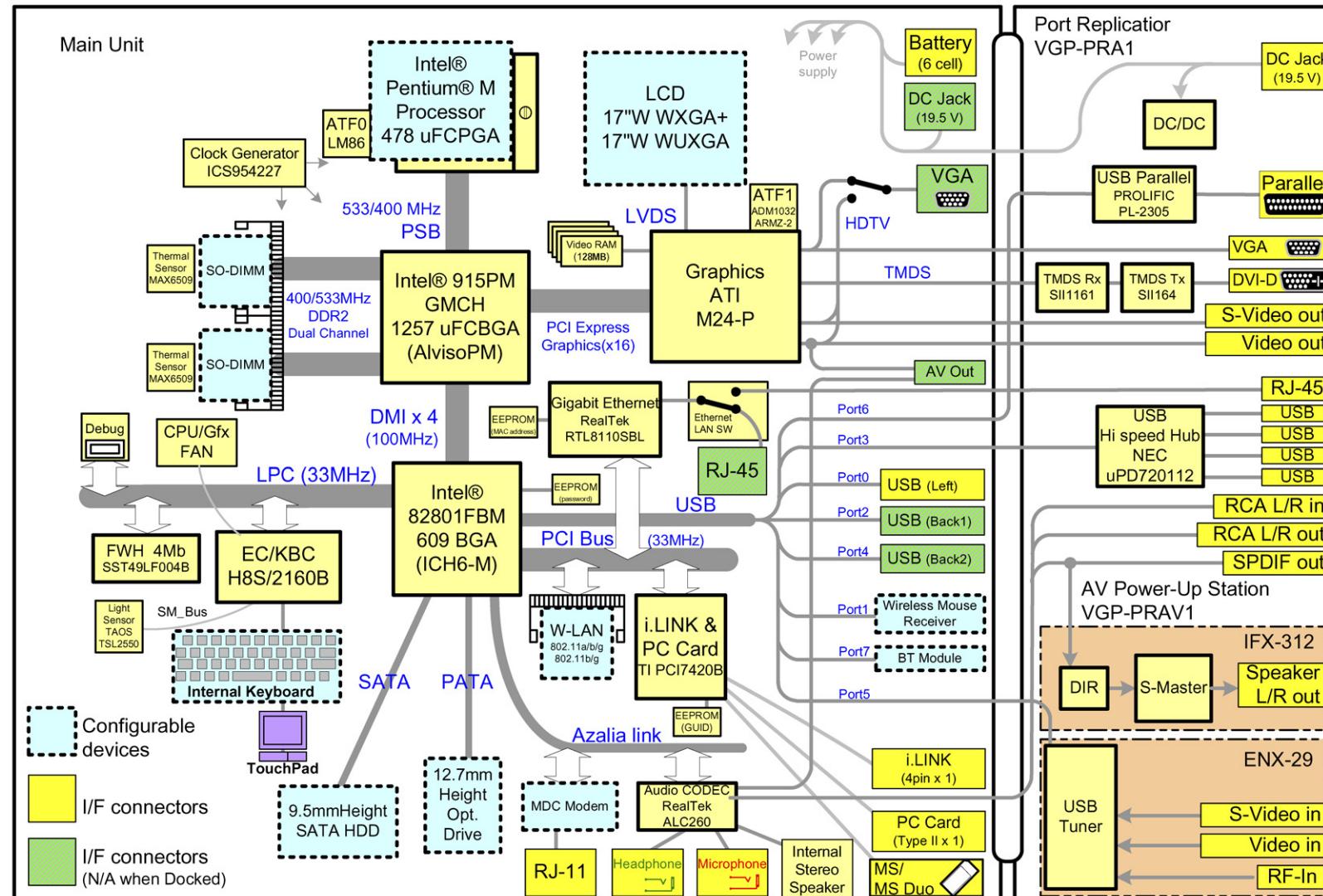
Confidential

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
VGN-A600/A600B/A600P/A690 (AM)  
VGN-A317M/A317S/A397XP (EU)

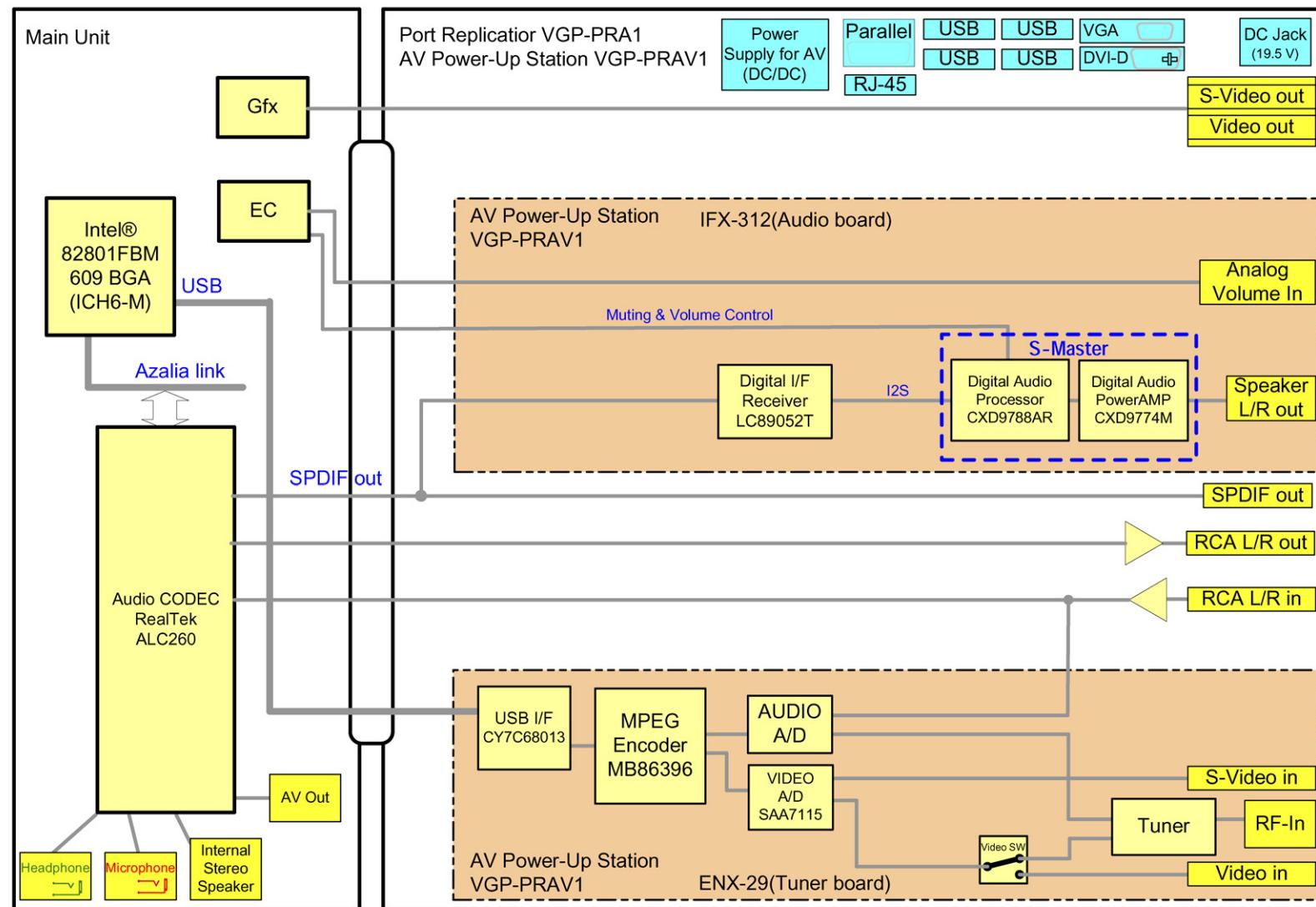
## CHAPTER 2.

# BLOCK DIAGRAM

### 2-1. VGN-A series



## 2-2. Port Replicator (VGP-PRAV)



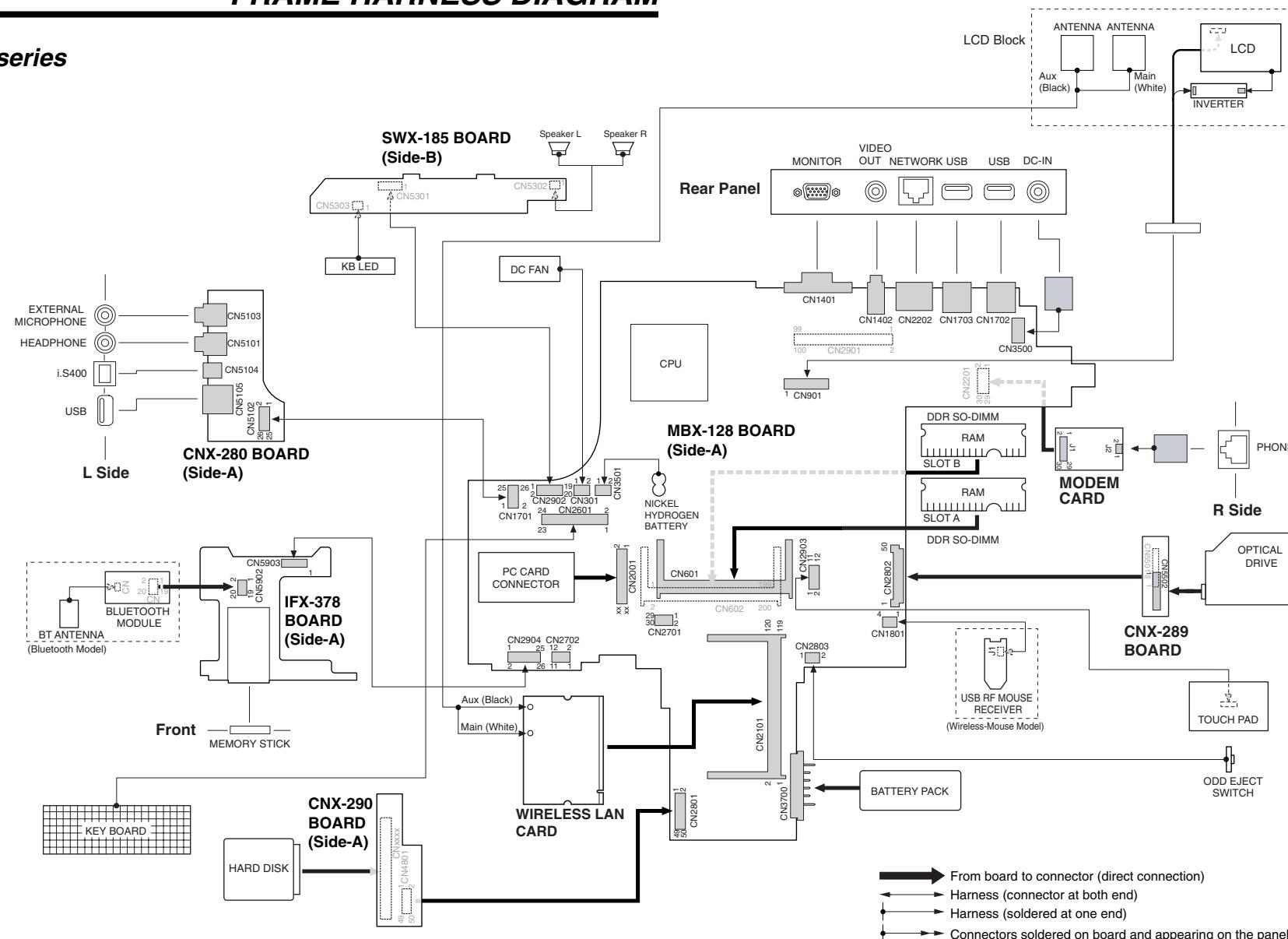
Confidential

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
 VGN-A600/A600B/A600P/A690 (AM)  
 VGN-A317M/A317S/A397XP (EU)

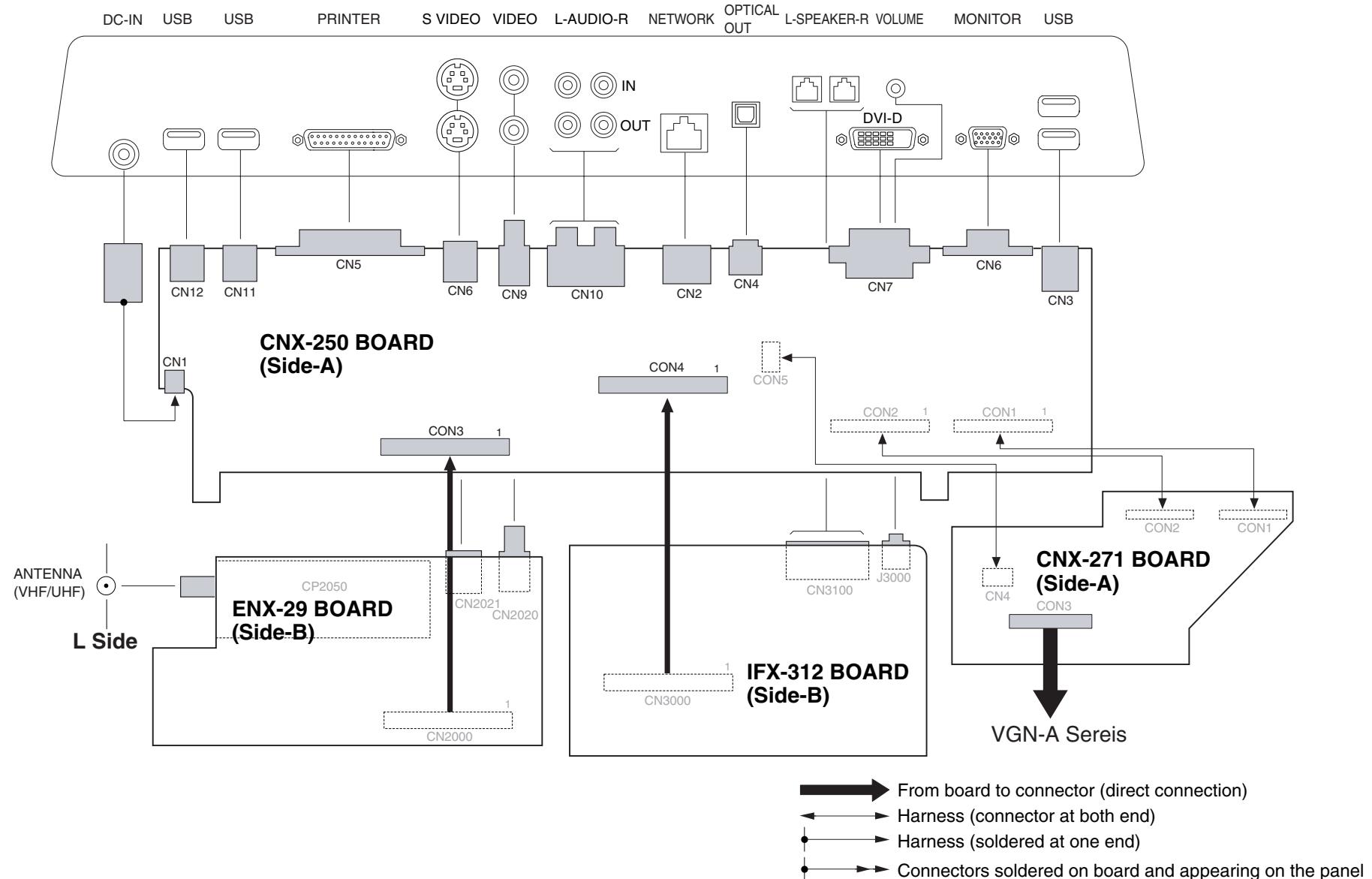
# CHAPTER 3.

## FRAME HARNESS DIAGRAM

### 3-1. VGN-A series



### 3-2. Port Replicator (VGP-PRAV)



- From board to connector (direct connection)
- ↔ Harness (connector at both end)
- Harness (soldered at one end)
- ↔ Connectors soldered on board and appearing on the panel

Confidential

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
**VGN-A600/A600B/A600P/A690 (AM)**  
 VGN-A317M/A317S/A397XP (EU)

# CHAPTER 4.

## EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

Section	Page
<b>Palmrest</b>	
P-1. Palmrest	4-2
<b>Main Board</b>	
M-1. Main Board	4-4
<b>Bottom</b>	
B-1. Bottom	4-6
<b>Optical Drive</b>	
D-1. Optical Drive	4-8

- 分解図と部品表は、パームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。

Section	Page
<b>LCD</b>	
L-1. LCD 17-inch WUXGA (Clear Black LCD) - Made by SH-	4-10
L-2. LCD 17-inch WXGA+ (Clear Black LCD) - Made by AU-	4-12
<b>Accessories</b>	
A-1. Accessories	4-14
A-2. Accessories	4-15
<b>DIP Switch</b>	4-17

### 【使用上の注意】

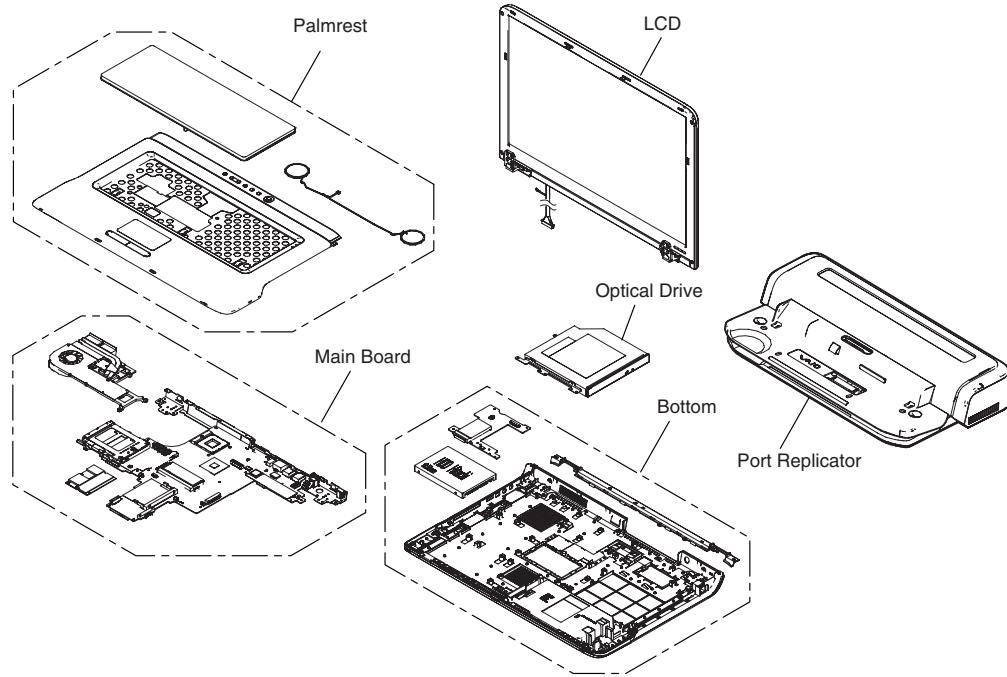
- ＊印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合、上部記載部品をメイン部品として使用してください。
- 部品名称の前に\$印のついた部品は、High Value Module (HVM)です。
- 商品名称の前に#印のついた部品は、バーコードラベル貼付部品です。
- バーコードラベルについてはCHAPTER5を参照してください。
- 部品名称の前に&印のついた部品は、お客様窓口などでも交換可能なCustomer Replaceable Parts (CRP)です。
- 特に<&>印のついた部品は、使い分けが必要な部品ですので、分解図でCustomer Replaceable Parts 対象部品か、対象外部品かを必ず御確認ください。
- 本モデルの基板については、基板上の各部品の修理は行うことができません。ただし、一部のコネクタについては、修理可能です。
- 機種名に(\*)がつくのは CTO モデルです。

組み合わせについては、CTO Informationを御確認ください。

The components identified by mark **△** or dotted line with mark **△** are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une marque **△** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

△印の部品、または△印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用してください。



	Palmrest	Main Board	Bottom	Optical Drive	LCD	Accessories	Port Replicator
J	A72PB P-1	M-1	B-1	D-1	L-1	A-1	A-2 (J-PR)
	A62B P-1	M-1	B-1	D-1	L-2	A-1	A-2 (J-PR)
	A72PS1* P-1	M-1	B-1	D-1	L-1	A-1	A-2 (J-PR)
	A72S1* P-1	M-1	B-1	D-1	L-1	A-1	A-2 (J-PR)
	A72PS2* P-1	M-1	B-1	D-1	L-2	A-1	A-2 (J-PR)
	A72S2* P-1	M-1	B-1	D-1	L-2	A-1	A-2 (J-PR)
AM	A690 P-1	M-1	B-1	D-1	L-1	A-1	A-2 (U-PR)
	A600P* P-1	M-1	B-1	D-1	L-1/L-2	A-1	A-2 (U-PR)
	A600B* P-1	M-1	B-1	D-1	L-1/L-2	A-1	A-2 (U-PR)
	A600* P-1	M-1	B-1	D-1	L-1/L-2	A-1	A-2 (U-PR)
EU	A397XP P-1	M-1	B-1	D-1	L-1	A-1	
	A317S P-1	M-1	B-1	D-1	L-2	A-1	A-2 (E-PR)
	A317M P-1	M-1	B-1	D-1	L-2	A-1	

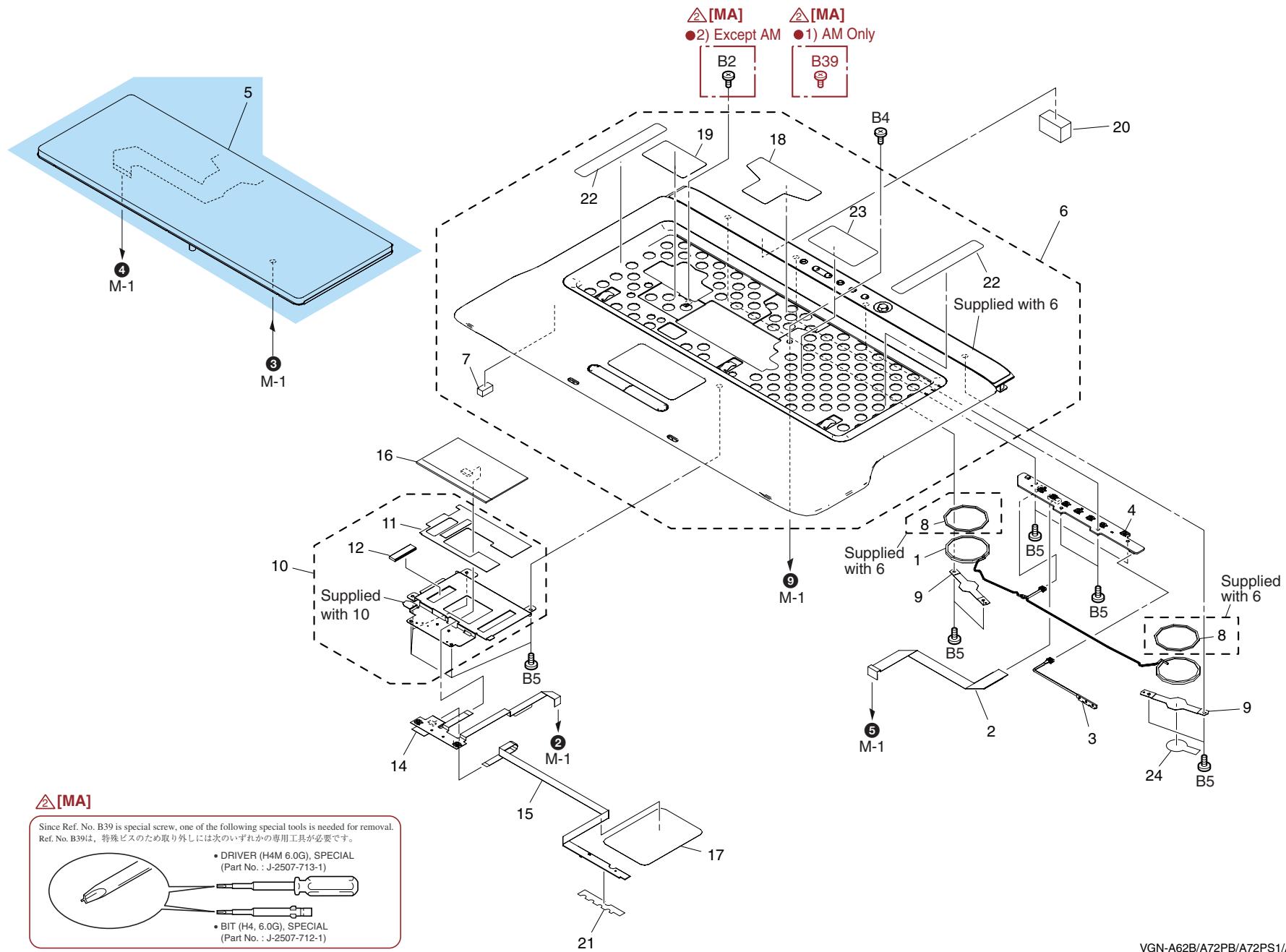
\* : CTO Model

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Confidential

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
VGN-A600/A600P/A600B/A690 (AM)  
VGN-A317M/A317S/A397XP (EU)

## **P-1. Palmrest**



Since Ref. No. B39 is special screw, one of the following special tools is needed for removal.  
Ref. No. B39は、特殊ビスのため取り外しには次のいずれかの専用工具が必要です。

- DRIVER (H4M 6.0G), SPECIAL  
(Part No. : J-2507-713-1)

**Confidential**

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
**VGN-A600/A600B/A600P/A690 (AM)**  
VGN-A317M/A317S/A397XP (EU)

## P-1. Palmrest

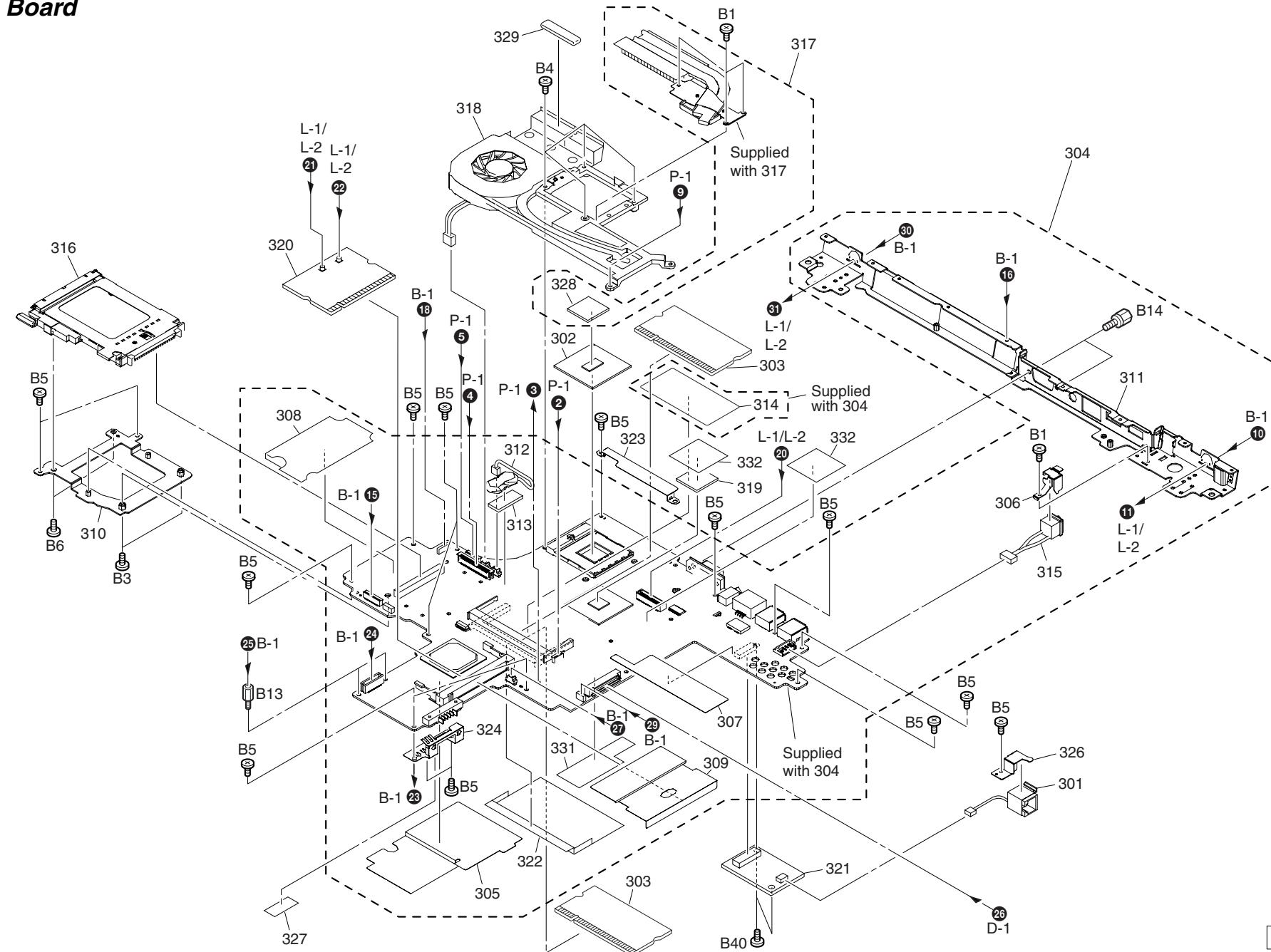
Ref.No.	Part No.	Description
1	A-1067-956-A	ASSY SPEAKER
2	A-1058-413-A	CABLE(20P), FLEXIBLE FLAT
3	A-1058-417-A	CABLE, KB LED
4	A-1094-548-A \$	COMPLETE PWB SWX-185
6	X-4626-655-2	SE1P PALMREST ASSY
7	4-682-423-01	SE1 SPONGE BT
8	2-159-644-01	SE1P SHEET SPEAKER RING
9	4-682-556-01	SE1P SPEAKER BRACKET
10	X-4626-657-1	SE1P TP BKT ASSY
11	4-682-560-01	TOUCHPAD SHEET
12	2-103-688-01	SE1P TOUCHPAD GASKET
14	1-866-586-11	PWB(10P), FLEXIBLE PRINT
15	A-1058-428-A	PWB(10P), FLEXIBLE PRINT
16	1-796-911-12	WIDE TOUCH PAD
17	2-103-691-01	SE1P BATT MASK MYLAR A
18	2-103-689-01	SE1P KEYBOARD BRACKET MYLAR A
19	2-103-690-01	SE1P KEYBOARD BRACKET MYLAR B
20	2-103-692-01	SE1P PALMREST GASKET
21	2-159-642-01	SE1P LED PORON
22	2-159-643-01	SE1P KEYBOARD SUPPORT MYLAR
23	2-159-977-01	SE1P KEYBOARD SUPPORT MYLAR B
24	2-548-305-01	SE1 MYLAR SPEAKER BKT
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD, EG GRIP
B4	2-048-596-02	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD, EG GRIP

Ref.No.	Part No.	Description	J						AM			EU			
			A72PB	A62B	A72PS1*	A72S1*	A72PS2*	A72S2*	A690	A600P*	A600B*	A600*	A397XP	A317S	A317M
5	1-478-650-11	& KEYBOARD UNIT (JP)	●	●	●	●	●	●	●	●	●	●			
	1-478-650-21	& KEYBOARD UNIT (US)													
	[MA] 1-478-640-11	& KEYBOARD UNIT (GB)													
	[MA] 1-478-640-21	& KEYBOARD UNIT (DE)													
	[MA] 1-478-640-31	& KEYBOARD UNIT (CH)													
	[MA] 1-478-640-41	& KEYBOARD UNIT (FR)													
	[MA] 1-478-640-51	& KEYBOARD UNIT (IT)													
	[MA] 1-478-640-61	& KEYBOARD UNIT (ES)													
	[MA] 1-478-640-71	& KEYBOARD UNIT (SE)													
	[MA] 1-478-640-81	& KEYBOARD UNIT (PT)													
	B39 4-681-432-11	SCREW (M2) (SPIN)													

- This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.
- This model that is accompanied by asterisk (\*) is the CTO model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
- 機種名に(\*)がつくのは CTO モデルです。

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## M-1. Main Board



## M-1. Main Board

Ref.No.	Part No.	Description
301	A-1058-426-A	CABLE, RJ11
304	A-1094-547-A \$ #	COMPLETE PWB MBX-128
305	4-682-945-01	SE1 2ND FAN MYLAR
306	X-2022-962-2	SE1 DC JACK HOLDER ASSY
307	4-682-478-01	SE1 ODD INSULATOR
308	2-583-809-01	RH MYLAR CARD BUS
309	4-682-475-01	SE1 SHEET MINI-PCI
310	4-682-569-01	SE1P CARD BOX BRACKET
311	X-4626-661-1	SE1P IO BRACKET ASSY
312	1-756-038-11	BATTERY,NICKEL HYDROGEN
313	4-642-711-11	SHEET (BATTERY), ADHESIVE
314	4-668-307-01	SHEET DIMM
315	A-1058-414-A	HARNESS,DC
316	1-819-065-11	CONNECTOR,PC CARD
317	A-1094-416-A	RH FIN THERMAL MODULE
318	A-1098-807-A \$	RH THERMAL MODULE
319	2-583-808-01	RH VGA THERMAL PAD
321	1-417-539-11 #	CARD,MODEM
322	4-682-465-02	SE1 MYLAR DOOR DIMM
323	2-103-444-01	SE1 EMI SPRING FIN
324	X-2022-963-1	SE1 EMI SPRING BATT-1 ASSY
326	4-683-063-01	RJ11 BKT
327	2-176-527-01	2ND FAN MYLAR-1
328	2-103-452-01	CPU THERMAL PAD
329	2-103-693-01	SE1P THERMAL MODULE GASKET
331	2-583-810-01	RH MYLAR BOARD MAIN SHIELD
332	2-582-419-01	RH MYLAR CHIP
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	SCREW, +B EG GRIP
B4	2-048-596-02	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP
B6	4-656-703-01	SCREW, M2
B13	2-103-443-01	SE1 HEX2-5+7
B14	4-635-966-01	SCREW(HEX)
B40	4-672-834-01	SCREW, +B EG GRIP

Ref.No.	Part No.	Description	AM							EU			
			A72PB	A62B	A72PS1*	A72S1*	A72PS2*	A72S2*	A690	A600P*	A600B*	A600*	A397XP
302	6-707-260-01	IC RH80536GE0412MSL7SM(PM-DO2.0)	●						●	●	●	●	
	6-707-258-01	IC RH80536GE0302MSL7SA(PM-DO1.73)		●					●	●	●	●	●
	6-707-261-01	IC RH80536GE0462MSL7SL(PM-DO 2.13)			●	●	●	●	●	●	●	●	
	6-707-259-01	IC RH80536GE0362MSL7S9(PM-DO1.86)			●	●	●	●	●	●	●	●	
	6-707-252-01	IC RH80536GE0252MSL86G(PM-DO 1.60)				●	●	●	●	●	●	●	
	6-707-715-01	IC RH80536NC0171MSL86K (CM-DO 1.4)				●	●	●	●	●	●	●	
303	6-707-350-01	IC HYS64T64020HDL-5-A(512MB)	●	●	●	●	●	●	●	●	●	●	●
	6-707-504-01	IC HYS64T128021HDL-5-A(1GB)			●	●	●	●	●	●	●	●	
	6-707-352-01	IC HYS64T32000HDL-5-A(256MB)			●	●	●	●	●	●	●	●	●
320	1-789-095-21 #	WIRELESS LAN CARD	●		●	●	●	●					
	1-761-864-25 #	WIRELESS LAN CARD			●								
	1-789-095-11 #	WIRELESS LAN CARD							●	●	●	●	
	1-761-864-15 #	WIRELESS LAN CARD							●	●	●	●	
	1-761-864-34 #	WIRELESS LAN CARD							●	●	●	●	

[MA]

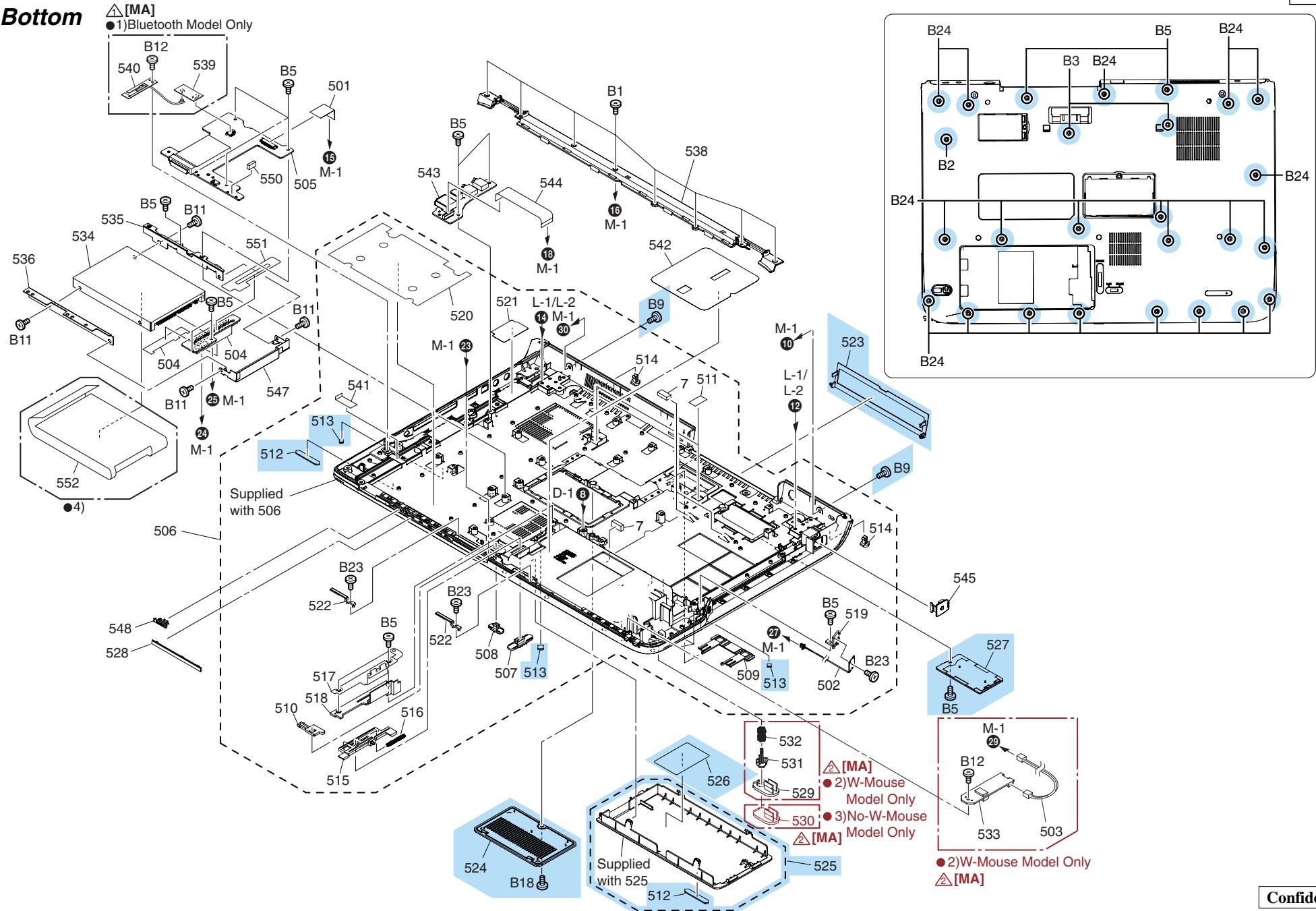
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- 1) The DIP switch setting, refer to page 4-17 "DIP switch".
- 2) The CPU THERMAL PAD (Ref.328) cannot be re-used if it is removed once.  
When the FIN THERMAL MODULE (Ref.317) is removed, be sure to replace it with the new one.
- 3) When change the CPU (Ref.302), refer to "5-2 Replacing the CPU" in CHAPTER 5.
  - 1) DIP スイッチの設定は、4-17 頁「DIP Switch」を参照してください。
  - 2) CPU THERMAL PAD (Ref.328) は、一度取り外したものを再利用することはできません。  
FIN THERMAL MODULE (Ref.317) をはずした場合には、必ず新しいものを交換してください。
  - 3) CPU (Ref.302) を交換する際は、CHAPTER 5、「5-2 CPU の交換」を参照してください。
  - This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.
  - This model that is accompanied by asterisk (\*) is the CTO model.
  - この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
  - 機種名に(\*)がつくのは CTO モデルです。

### ***B-1. Bottom***



- 4) Ref.552 is a part that is only needed for Ref.534 A-1108-510-A, A-1108-509-A, and A-1109-275-A.

●4) Ref.552 は、Ref.534 A-1108-510-A, A-1108-509-A, A-1109-275-A のみに必要な部品です。

4-6

## B-1. Bottom

Ref.No.	Part No.	Description
7	4-682-423-01	SE1 SPONGE BT
501	A-1058-406-A	CABLE(26P), FLEXIBLE FLAT
502	A-1058-416-A	CABLE, ODD EJECT
504	A-1094-551-A \$	COMPLETE PWB CNX-290
505	A-1094-552-A \$ #	COMPLETE PWB IFX-378
506	X-4626-658-4	SE1P BOTTOM ASSEY
507	4-682-454-01	SE1 15S BATT BUTTON
508	4-682-455-01	SE1 15S BATT BUTTON3
509	4-682-460-01	SE1 15S DOOR DOCK
510	4-682-457-01	SE1 BATT LOCK
511	4-683-040-01	SE1 DOCKING HOOK MYLAR
512	4-682-443-01	& SE1 FOOT FRONT
513	4-682-444-01	& SE1 FOOT FRONT CENTER
514	4-682-445-01	SE1 FOOT REAR
515	4-682-456-01	SE1 LATCH BATT
516	4-682-459-01	SE1 LATCH BATT SPRING
517	4-682-479-01	SE1 EMI SPRING BATT
518	4-682-458-02	SE1 LATCH LEVER
519	4-682-476-01	SE1 SW BRACKET
520	2-103-697-01	SE1P HDD MYLAR

521	2-103-698-01	SE1P INSULATION AUDIO BD
522	4-682-447-01	SE1 LCD LATCH DETECTOR
523	X-4626-721-1	& SE1 DOOR I/O ASSY
524	X-4626-653-1	& SE1 DIMM DOOR ASSY
525	X-4626-720-1	& SE1 BATTERY DOOR ASSY

526	2-025-132-01	& LABEL BATTERY
527	4-682-466-01	& SE1 15S DOOR MODEM
535	4-682-580-01	SE1P BRACKET HDD-L
536	4-682-581-01	SE1P BRACKET HDD-R
538	4-682-568-01	SE1P DISPLAY BASE

541	2-103-696-01	SE1P SHEET BLUETOOTH ANT
542	2-103-695-01	SE1P BATT MASK MYLAR B
543	A-1094-549-A \$	COMPLETE PWB CNX-288
544	1-865-674-11	PWB(26P), FLEXIBLE PRINT
545	4-682-462-01	SE1 15S MODEM R

547	2-067-843-01	EMI SPRING HDD
550	2-159-787-01	SE1 SPONGE LENS
551	2-583-811-01	MYLAR SATA HDD BOARD

B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	<&> SCREW, +B EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B9	2-159-307-01	<&> SCREW, M2.6-B EG GRIP

B11	4-672-839-01	HEAD,M3 FLAT
B12	4-672-840-01	SCREW, M2 TAPPING,FLAT HEAD
B18	4-672-834-21	<&> SCREW, +B EG GRIP
B23	3-254-029-11	SCREW
B24	4-672-834-71	<&> SCREW,+B EG GRIP

Ref.No.	Part No.	Description	J							AM			EU		
			A72PB	A62B	A72PS1*	A72S1*	A72PS2*	A72S2*	A690	A600P*	A600B*	A600*	A397XP	A317S	A317M
503	A-1058-408-A	CABLE,WIRELESS MOUSE	●	●	●	●	●	●	●	●	●	●	●	●	●
528	4-682-449-01	SE1 LENS PANEL CTO (W/WL,W/BT)													
529	4-683-065-01	SE1 LENS PANEL CTO(W/WL,No-BT)	●	●	●	●	●	●	●	●	●	●	●	●	●
530	4-683-066-01	SE1P PANEL RF CTO(No-W-Mouse)													
531	4-682-582-01	SE1P BUTTON RF(W/W-Mouse)	●	●	●	●	●	●	●	●	●	●	●	●	●
532	4-682-583-01	SE1P SPRING RF KNOB(W/W-Mouse)	●	●	●	●	●	●	●	●	●	●	●	●	●
533	1-796-949-11	USB RF MOUSE RECEIVER	●	●	●	●	●	●	●	●	●	●	●	●	●
534	A-1105-612-A \$ #	HDD (100GB,HTS541010G9SAU0)	●	●	●	●	●	●	●	●	●	●	●	●	●
	A-1108-510-A \$ #	HDD(MHT2080-80GB)													
	A-1108-509-A \$ #	HDD(MHT2060-60GB)													
	A-1109-275-A \$ #	HDD(MHT2040-40GB)													
539	1-805-554-11	BLUETOOTH MODULE													
540	A-1058-407-A	CABLE,BT ANTENNA													
548	4-682-446-01	SE1 SWITCH WLAN(W/WL)	●	●	●	●	●	●	●	●	●	●	●	●	●
552	2-583-812-01	AL FOIL SATA HDD													

[MA] [MA]

- 1) Ref.539 and Ref.540 are parts for the models equipped with Bluetooth. ▲[MA]
- 2) Ref.503, 529, 531, 532, and 533 are parts for the models with a wireless mouse. ▲[MA]
- 3) Ref.530 is a part for the models without a wireless mouse. ▲[MA]
- 4) Ref.552 is a part that is only needed for Ref.534 A-1108-510-A, A-1108-509-A, and A-1109-275-A.
- 1) Ref.539 と Ref.540 は、BULETOOTH 搭載モデル用の部品です。▲[MA]
- 2) Ref.503,529,531,532,533 は、Wireless-Mouse 付モデル用の部品です。▲[MA]
- 3) Ref.530 は、Wireless-Mouse が付かないモデル用の部品です。▲[MA]
- 4) Ref.552 は、Ref.534 A-1108-510-A, A-1108-509-A, A-1109-275-A のみに必要な部品です。
- This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.
- This model that is accompanied by asterisk (\*) is the CTO model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
- 機種名に(\*)がつくのは CTO モデルです。

## D-1. Optical Drive

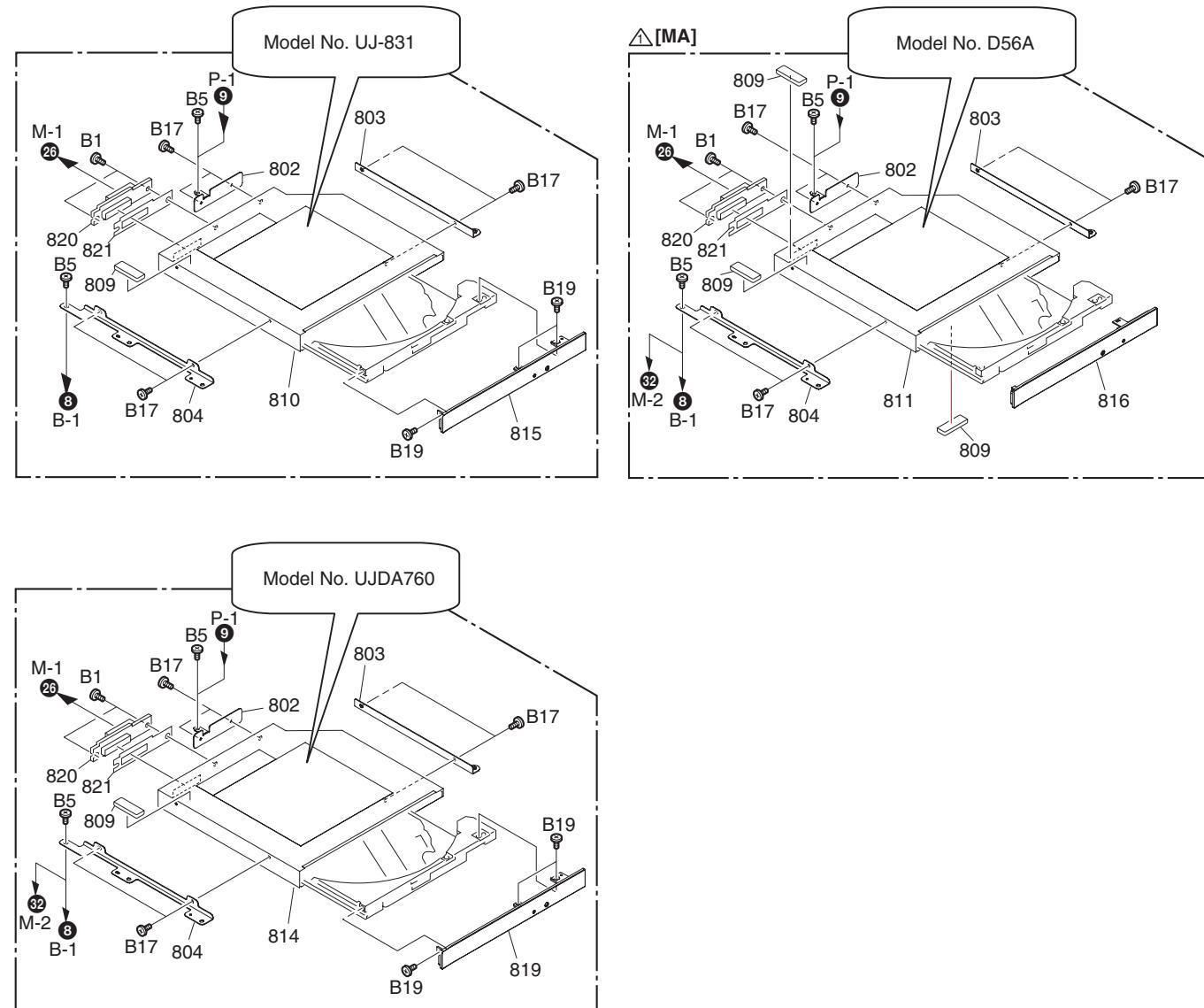
### How to Use Parts Differently.

This series of product uses the five different types of the optical drive.

When replacing the optical drive, check the indication label of it, and use the same type of the optical drive.

Each optical drive has different types of the bezel.

For the how to identify the type of drive and the combination of the Bezel, refer to the details below.



## D-1. Optical Drive

Ref.No.	Part No.	Description
802	4-682-408-01	SE1 CD BRACKET BACK
803	4-682-406-01	SE1 CD BRACKET L
804	4-682-407-01	SE1 CD BRACKET R
809	2-102-385-01	SE1 GASKET ODD
820	A-1094-550-A	COMPLETE PWB CNX-289
821	4-682-950-01	SE1 ODD BOARD MYLAR
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD
B17	4-671-538-01	SCREW(M2x4), SPECIAL HEAD

Ref.No.	Part No.	Description	J						AM			EU			
			A72PB	A62B	A72PS1*	A72S1*	A72PS2*	A72S2*	A690	A600P*	A600B*	A600*	A397XP	A317S	A317M
810	1-797-066-11	\$ # DVD+/-RW(UJ-831BSX2-A)	●	●	●	●	●	●	●	●	●	●			
811	8-457-624-90	\$ # DRIVE, DVD DW-D56A-V2							●	●	●	●			
814	1-797-053-21	\$ # COMBO DRIVE(UJDA760)			●	●	●	●		●	●	●			
815	X-2024-227-1	SE2 PCC UJ830B DVD+/-RW	●	●	●	●	●	●							
816	X-2024-036-1	SE2 CD DW-D56A BEZEL ASSY			●	●	●	●		●	●	●	●	●	●
819	X-2024-057-1	SE2 UJDA-760 BEZEL ASSY			●	●	●	●		●	●	●			
B19	4-645-177-01	SCREW(M1.7x3.5)	●	●	●	●	●	●							

△ [MA]

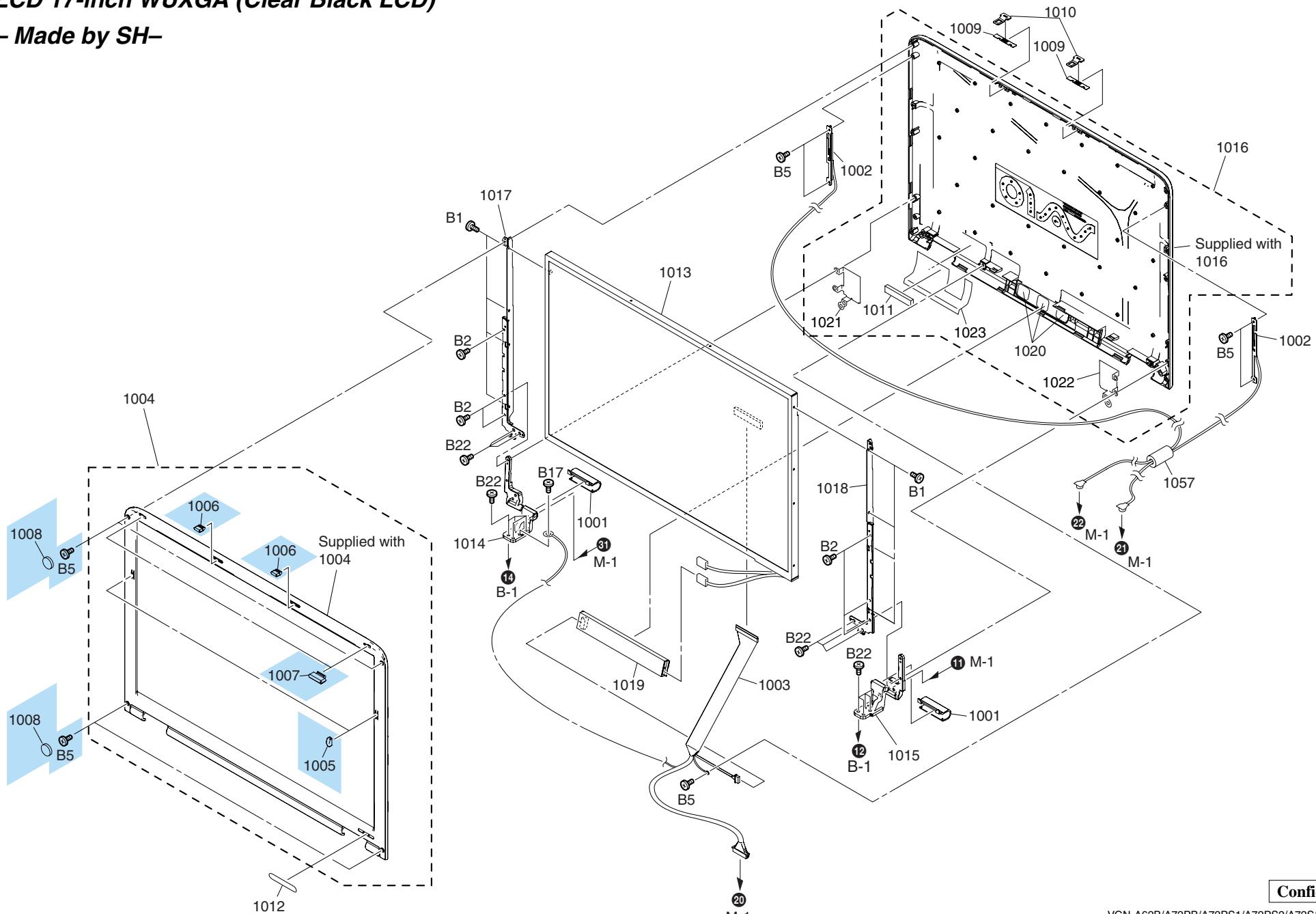
△ [MA]

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- 機種名に(\*)がつくのは CTO モデルです。

## **L-1. LCD 17-inch WUXGA (Clear Black LCD)**

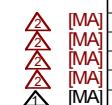
– Made by SH –



## L-1. LCD 17-inch WUXGA (Clear Black LCD)

– Made by SH –

Ref.No.	Part No.	Description
1001	4-682-380-01	SE1 COVER HINGE
1003	A-8119-991-A	HARNESS, LCD FOR 17WUXGA
1004	X-4626-664-1	SE1 BEZEL DISPLAY 17 ASM
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-02	HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1013	A-1062-138-A \$ #	LCD_UNIT_(2CFL-17WUXGA)(S)
1014	4-682-578-01	SE1P HINGE L AMS
1015	4-682-577-01	SE1P HINGE R AMS
1016	X-4626-663-1	SE1P HOUSING DISPLAY 17 2 ASM
1017	4-682-576-01	SE1P LCD BRACKET L
1018	4-682-575-01	SE1P LCD BRACKET R
1019	1-478-629-11	INVERTER UNIT(2CFL-17W)
1020	2-159-645-01	SE1P INVERTER ADHESIVE
1021	2-190-716-01	SE1P HOUSING AL L
1022	2-190-717-01	SE1P HOUSING AL R
1023	2-190-718-01	SE1P HOUSING AL BTM
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B17	4-671-538-01	SCREW(M2x4),SPECIAL HEAD
B22	2-108-227-01	SPECIAL FLAT HEAD



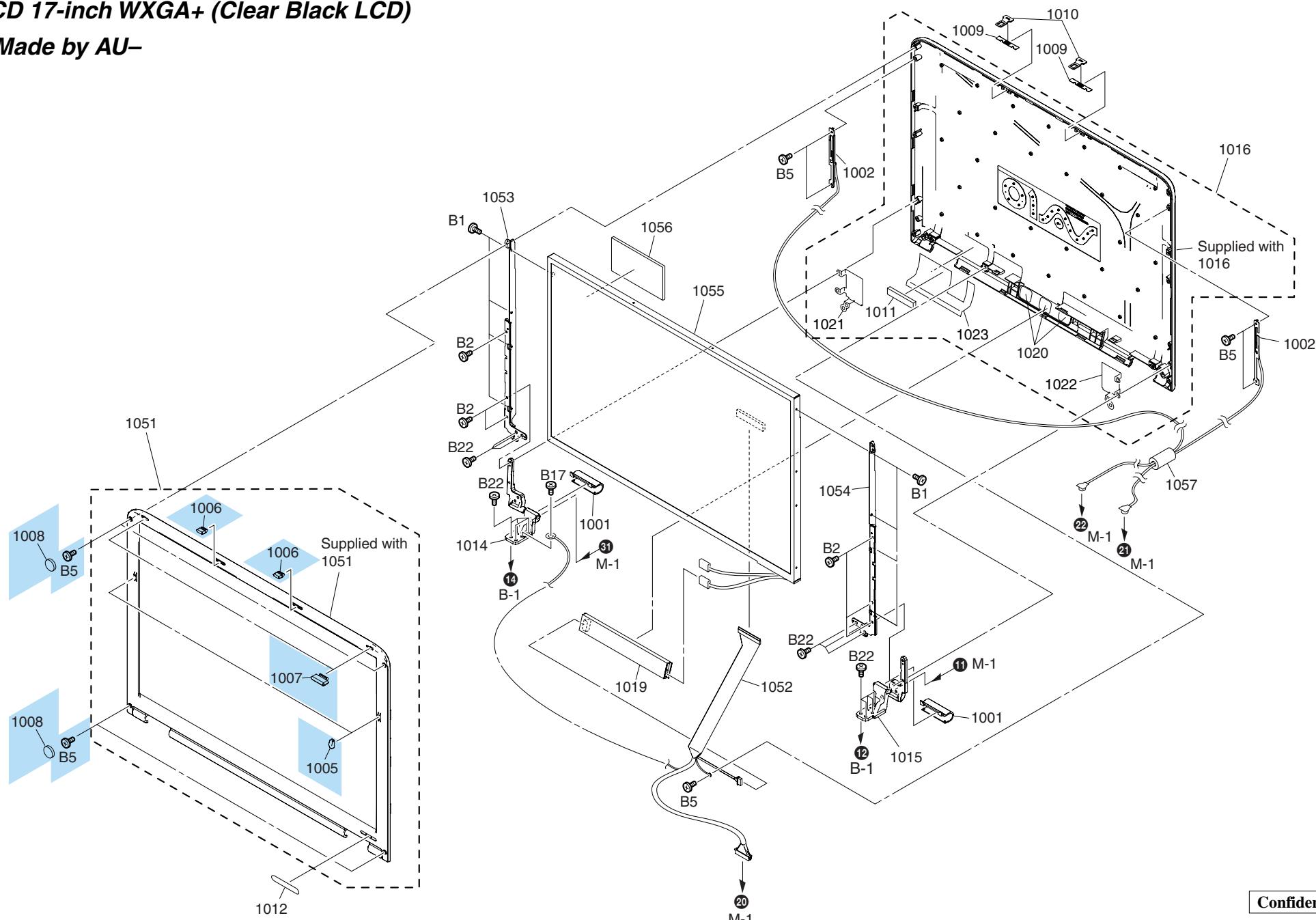
Ref.No.	Part No.	Description	AM						EU	
			A72PB	J	A72PS1*	A72S1*	A690	A600P*	A600B*	A600*
1002	A-1058-425-A	CABLE, WL ANTENNA	●	●	●	●	●	●	●	●
1012	2-581-495-01	LABEL ID (J)	●							
	2-583-683-01	LABEL ID (JCTO)		●						
	2-583-683-11	LABEL ID (JCTO)			●					
	2-581-496-01	LABEL ID (U)				●				
	2-583-680-01	LABEL ID (UCTO)					●			
	2-583-680-21	LABEL ID (UCTO)						●		
	2-583-680-11	LABEL ID (UCTO)							●	
	2-581-497-01	LABEL ID (E)								●
1057	2-583-807-01	RH FERRITE CORE BRH8X12X4	●	●	●	●	●	●	●	●

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[MA] □  
[MA] □  
[MA] □

## **L-2. LCD 17-inch WXGA+ (Clear Black LCD)**

– Made by AU –



## L-2. LCD 17-inch WXGA+ (Clear Black LCD)

### - Made by AU -

Ref.No.	Part No.	Description
1001	4-682-380-01	SE1 COVER HINGE
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-02	HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1014	4-682-578-01	SE1P HINGE L AMS
1015	4-682-577-01	SE1P HINGE R AMS
1016	X-4626-663-1	SE1P HOUSING DISPLAY 17 2 ASM
1019	1-478-629-11	INVERTER UNIT(2CFL-17W)
1020	2-159-645-01	SE1P INVERTER ADHESIVE
1021	2-190-716-01	SE1P HOUSING AL L
1022	2-190-717-01	SE1P HOUSING AL R
1023	2-190-718-01	SE1P HOUSING AL BTM
1051	X-2024-399-1	SE2P BEZEL DISPLAY 17 AU
1052	A-1074-808-A	HARNESS,LCD 17 WXGA
1053	2-176-382-01	SE2P LCD BRACKET L
1054	2-176-383-01	SE2P LCD BRACKET R
1055	A-1087-141-A \$ #	LCD_UNIT_(17WXGA)_(S)
1056	2-342-994-01	SHIELD TAPE(AU17)
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B17	4-671-538-01	SCREW(M2x4),SPECIAL HEAD
B22	2-108-227-01	SPECIAL FLAT HEAD

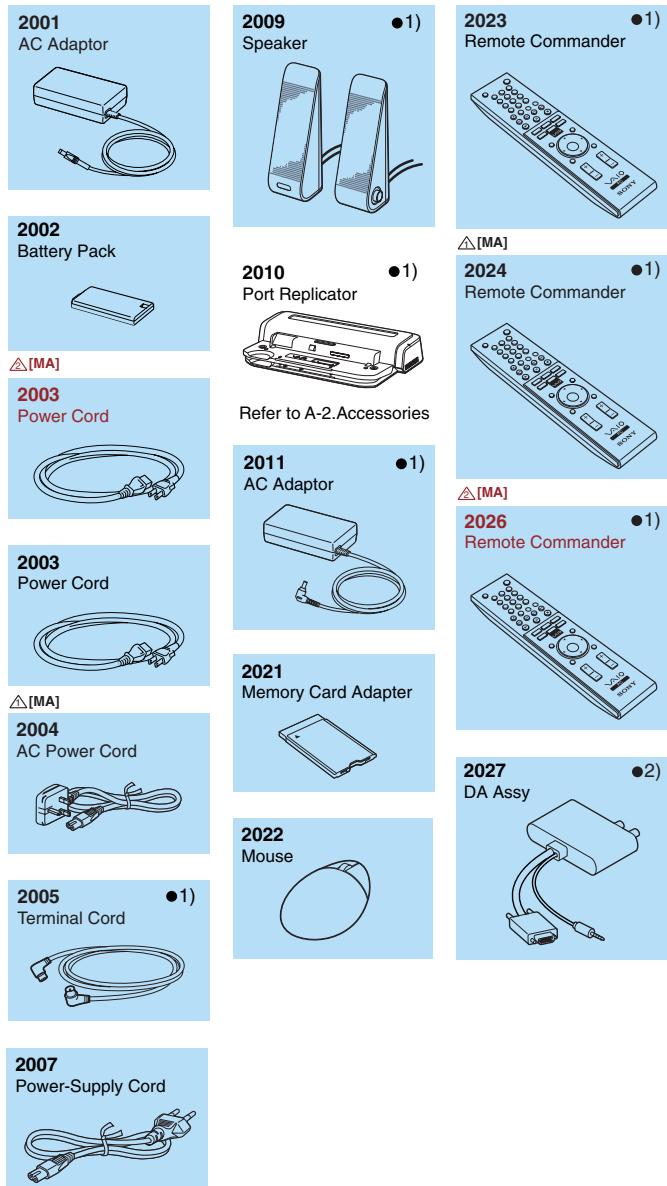
Ref.No.	Part No.	Description	J	AM	EU
1002	A-1058-425-A	CABLE, WL ANTENNA	●	●	●
1012	2-581-495-11	LABEL ID (J)	●		
	2-583-683-21	LABEL ID (JCTO)	●		
	2-583-683-31	LABEL ID (JCTO)	●		
	2-583-680-01	LABEL ID (UCTO)	●		
	2-583-680-21	LABEL ID (UCTO)	●		
	2-583-680-11	LABEL ID (UCTO)	●		
	2-581-497-11	LABEL ID (E)			●
	2-581-497-21	LABEL ID (E)			●
	1057	RH FERRITE CORE BRH8X12X4	●	●	●

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## A-1. Accessories



Ref.No.	Part No.	Description	A72PB		J		AM		EU	
			A62B	A72PS1*	A72S1*	A72PS2*	A72S2*	A690	A600P*	A600B*
△ 2001	1-479-114-11	ADAPTOR, AC	●	●	●	●	●	●	●	●
△ 2011	1-478-037-33	ADAPTOR, AC	●	●	●	●	●	●	●	●
△ 2002	A-1062-155-A	BATTERY 9130PA SNT (J) (S)	●	●	●	●	●	●	●	●
△ 2002	A-1062-142-A	BATTERY 9130 (U)(S)						●	●	●
△ 2002	A-1062-143-A	BATTERY 9130 (E)(S)						●	●	●
△ [MA]										
△ [MA]										
△ [MA]	1-829-237-21	CORD, POWER						●	●	●
△ [MA]	1-790-732-32	CORD, POWER						●	●	●
△ [MA]	1-823-935-51	CORD, AC POWER(GB)						●	●	●
△ [MA]	1-829-239-11	CORD, F TERMINAL WITH RF	●	●	●	●	●	●	●	●
△ [MA]	1-827-160-21	POWER-SUPPLY CORD	●	●						
△ [MA]	1-827-481-21	POWER-SUPPLY CORD								
△ [MA]	1-816-429-12	PHONE PLUG (GB)								
△ [MA]	A-1091-713-A	ASSY SPEAKER FW	●	●	●	●	●	●	●	●
2010	-	PORT REPLICATOR	●	●	●	●	●	●	●	●
2021	1-478-615-11	MEMORY CARD ADAPTER	●	●	●	●	●	●	●	●
2022	1-796-824-32	MOUSE (SLV)	●	●	●	●	●	●	●	●
2023	1-478-688-11	REMOTE COMMANDER (RM-VC10)	●	●	●	●	●	●	●	●
2024	1-478-969-11	REMOTE COMMANDER (RM-VC10E)								
△ [MA]	1-479-183-11	REMOTE COMMANDER (RM-VC10U)						●	●	●
△ [MA]	A-1094-624-A	OVERALL DA ASSY ,MAIN	●	●	●	●	●	●	●	●
△ [MA]	- 2-584-072-01	MANUAL (XP), INSTRUCTION	●	●	●	●	●	●	●	●
△ [MA]	- 2-585-226-01	QUICK START (A) (EN) (CDS)						●	●	●
△ [MA]	- 2-585-784-01	QUICK START (A) (SD)						●	●	●
△ [MA]	- 2-583-969-11	HW SPECS, (E) A GB,NL,ES,PT								
△ [MA]	- 2-583-969-61	HW SPECS (E) A NL,BE								
△ [MA]	- 2-583-970-11	HW SPECS (E) B NL								
△ [MA]	- 2-583-970-21	HW SPECS (E) B NL								
△ [MA]	- 2-583-969-21	HW SPECS (E) A DE,CH								
△ [MA]	- 2-583-969-31	HW SPECS (E) A FR,BE,CH								
△ [MA]	- 2-583-969-41	HW SPECS (E) A IT,CH								
△ [MA]	- 2-583-969-51	HW SPECS (E) A ES								
△ [MA]	- 2-583-969-81	HW SPECS (E) A SE								
△ [MA]	- 2-583-969-91	HW SPECS (E) A (PT)								

[MA] [MA] [MA] [MA] [MA] [MA]

●1) The Ref.2005,2009,2010,2011,2023,2024 and 2026 are included only in the models supplied with the Port Replicator.

●2) Ref.2027 is packed only with the models equipped with Pentium M. (Refer to 1-1.SPECIFICATION, and 1-2. CTO INFORMATION.)

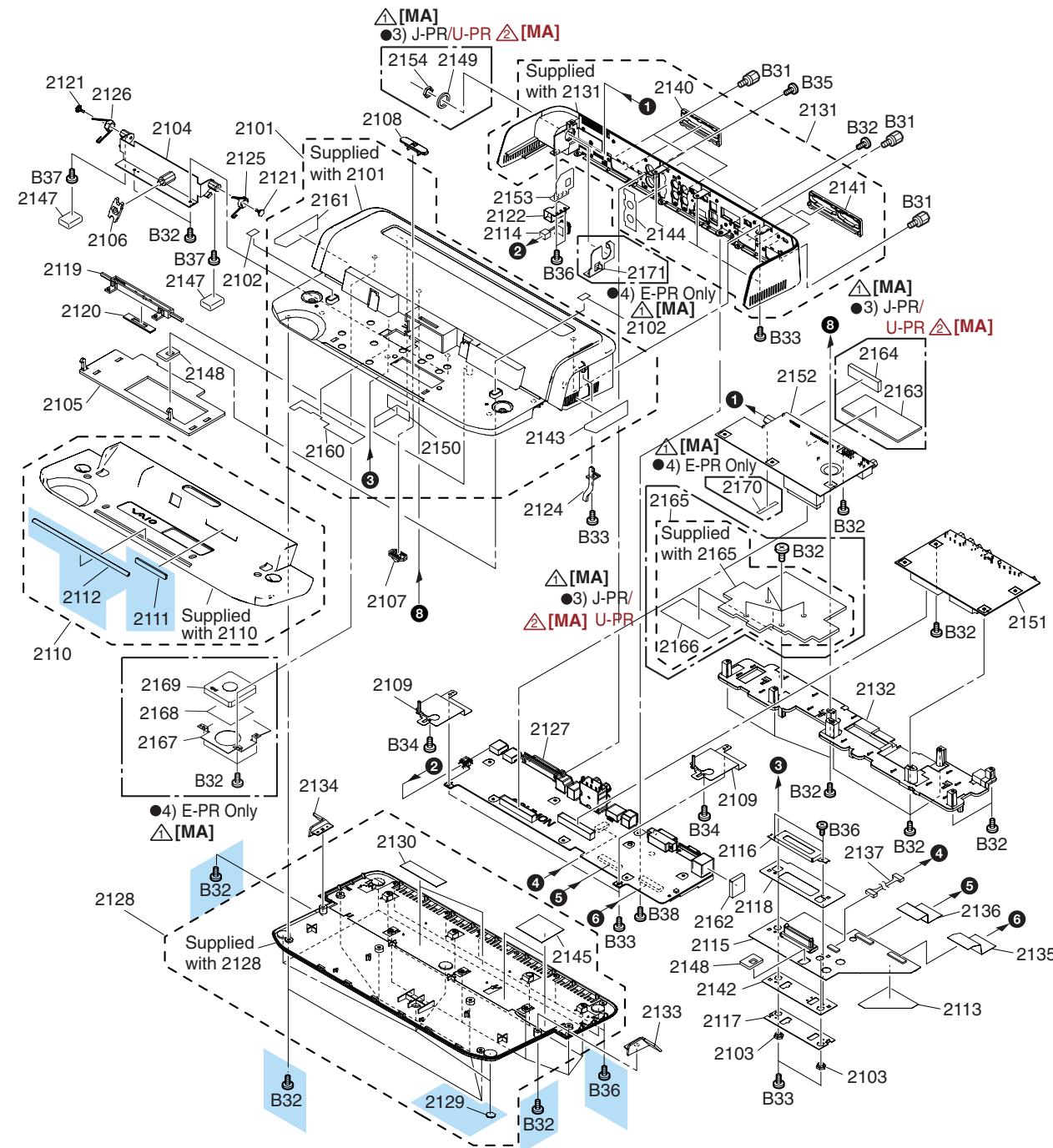
●1) Ref.2005,2009,2010,2011,2023,2024,2026 は、Port Replicator 同梱機種のみについてきます。

●2) Ref.2027 は、Pentium M 搭載機種のみに同梱されます。(1-1.SPECIFICATION,1-2. CTO INFORMATION をご参照ください)

• This model that is accompanied by asterisk (\*) is the CTO model.

• 機種名に(\*)がつくのは CTO モデルです。

## ***A-2. Accessories***



## ***A-2. Accessories***

Ref.No.	Part No.	Description
2101	X-4626-667-1	SUB HOUSING UPPER BPR ASSY
2102	4-682-689-01	BPR MYLAR FOOT
2103	4-682-693-01	BPR CAP BOSS DOCK CONN
2104	4-682-694-01	BPR BRACKET ARM TRAY
2105	4-682-695-01	BPR HOOK FRONT
2106	4-682-697-01	BPR ARM SLIDE HOOK YOKO
2107	4-682-698-01	BPR KNOB HOOK RELEASE
2108	4-682-699-01	BPR KNOB HOOK RELEASE BOTTON
2109	4-682-700-01	BPR PIN GND
2110	X-4626-672-1	SUB HOUSING TRAY BPR ASSY
2111	4-682-721-01	& BPR CUSHION REAR
2112	4-682-720-01	& BPR CUSHION FRONT
2113	2-048-435-01	BPR MYLAR FPC
2114	A-1058-415-A	HARNESS, DC
2115	A-1103-180-A	\$ COMPLETE PWB CNX-271
2116	4-682-690-01	BPR PLATE DOCK CONN UPPER
2117	4-682-691-01	BPR PLATE DOCK CONN BOTTOM
2118	2-048-436-01	BPR MYLAR SHIELDING
2119	X-2021-564-1	BPR ASSYSUB CAM SLIDE HOOK
2120	2-048-437-01	BPR SPONGE CAM SLIDE HOOK
2121	4-682-709-01	BPR ARM TRAY PIN
2122	4-682-712-01	BPR BRACKET DC
2124	4-682-708-01	BPR LIGHT GUIDE LED
2125	4-682-714-01	BPR SPRING TRAY R
2126	4-682-715-01	BPR SPRING TRAY L
2128	X-4626-669-1	SUB HOUSING BOTTOM BPR ASSY
2129	4-682-703-01	& BPR RUBBET FOOT
2130	2-048-440-01	APR MYLAR B2B CONNECTOR
2132	X-4626-671-1	SUB FRAME BPR ASSY
2133	4-682-710-01	BPR COVER RIGHT HOUSING UPPER
2134	4-682-711-01	BPR COVER LEFT HOUSING UPPER
2135	A-1058-418-A	PWB (60P), FLEXIBLE PRINT A
2136	A-1058-419-A	PWB (60P), FLEXIBLE PRINT B
2137	A-1058-420-A	CABLE, ETHER
2140	4-682-728-01	APR COVER BRACKET D-SUB-1
2141	4-682-729-01	APR COVER BRACKET D-SUB-2
2142	2-048-439-01	BPR ENFORCE PLATE
2143	2-103-312-01	MYLAR TOP SHIELD R
2145	2-103-314-01	MYLAR 34x40
2147	2-103-316-01	GASKET 7x10x2
2148	2-103-317-01	MYLAR HOOK FRONT
2150	2-103-318-01	APR FOIL AL 6x24
2151	A-1102-188-A	\$ COMPLETE PWB IFX-312
2160	2-048-434-01	BPR MYLAR BRACKET ARM TRAY
2161	2-103-313-01	BPR MYLAR TOP SHIELD L
2162	2-148-338-01	BPR SPONGE USB 2 PORT

Ref.No.	Part No.	Description
B31	4-635-966-01	SCREW (HEX)
B32	4-671-504-11	<&> SCREW, TAPPING+P2.6
B33	3-906-376-01	SCREW(2.6x6)
B34	4-639-112-31	SCREW M2X4
B35	2-103-677-01	T3X8L, (I) B-NI
B36	4-641-726-21	<&> SCREW(M2), SPECIAL HEAD
B37	4-671-538-01	SCREW(M2x4), SPECIAL HEAD
B38	4-635-301-11	SCREW M3X4



- The destination is shown in the list of 4-1 for the Port Replicator. Please refer to list shown in the below.
- ポートトリッピケーターの仕向けは、4-1の一覧表を参照ください。

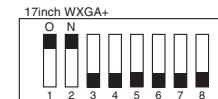
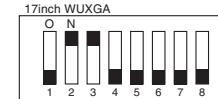
## DIP Switch

The DIP switch setting is following table.

DIP スイッチの設定は下の表をご参照ください。

J	VGN-A72PB	VGN-A62B	
AM	<b>△ [MA]</b> VGN-A690		
EU	<b>△ [MA]</b> VGN-A397XP	<b>△ [MA]</b> VGN-A317S	<b>△ [MA]</b> VGN-A317M

### [FOR CTO MODEL]



The DIP switch setting is different depending the types of LCD.

Set the DIP switch of the CTO model in accordance with the [FOR CTO MODEL].

DIP スイッチの設定は、LCD の種類によって異なります。

CTO モデルは、【FOR CTO MODEL】の表に従って DIP スイッチを設定してください。

**Confidential**

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
VGN-A600/A600B/A600P/A690 (AM)  
VGN-A317M/A317S/A397XP (EU)

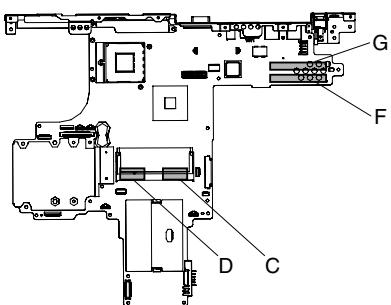
## CHAPTER 5. OTHERS

### 5-1. The barcode label

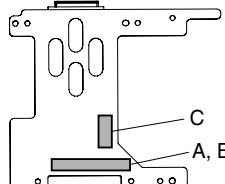
The hatched portion of the barcode label is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用しています。

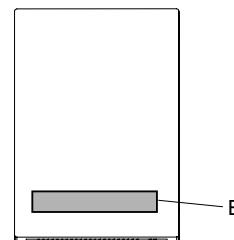
[ MBX-128 Board ] (Side A)



[ IFX-378 Board ] (Side B)

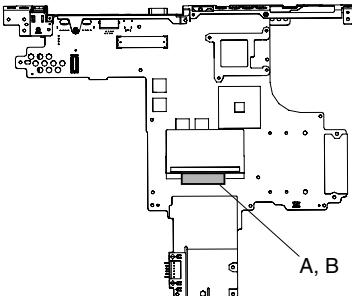


[ HDD ] (Made by Hi) (Bottom)

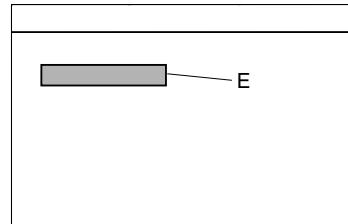


A	: Parts No.
B	: Serial No.
C	: Revision No.
D	: Product code
E	: Maker Barcode
F	: Global User ID (iLink)
G	: Mac Address
[ ]	: Barcode

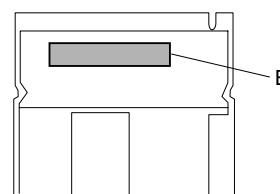
[ MBX-128 Board ] (Side B)



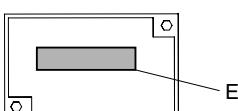
[ LCD Unit ] (Rear)



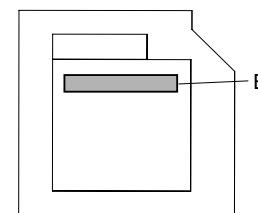
[ Wireless LAN Card ]



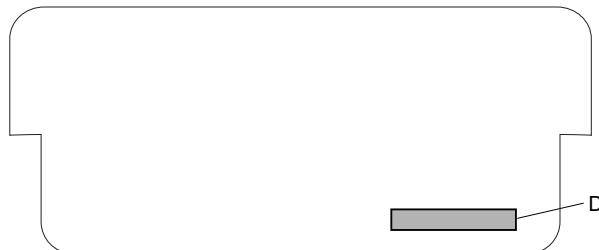
[ Modem Card ]



[ Optical Drive ] (Top)



[ Port Replicator ] (Rear)



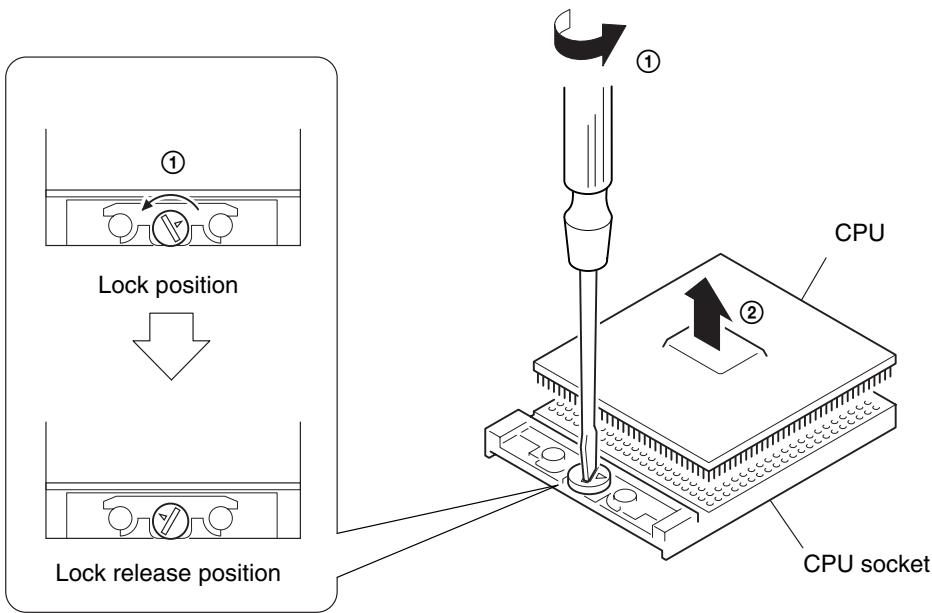
Confidential

VGN-A62B/A72PB/A72PS1/A72PS2/A72S1/A72S2 (J)  
VGN-A600/A600B/A600P/A690 (AM)  
VGN-A317M/A317S/A397XP (EU)

## 5-2. Replacing the CPU

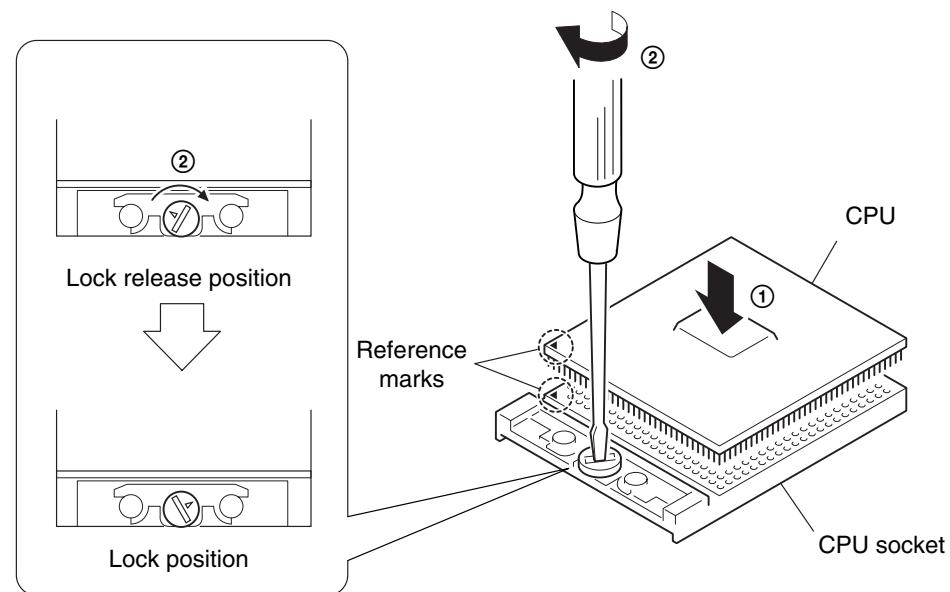
### 1. Removing the CPU

- ① Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock release position.
- ② Pull the CPU gently upward to lift it out of the CPU socket.



### 2. Installing the CPU

- ① Align the triangle reference mark of the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
- ② While pressing the two positions marked by  $\bigcirc$ , insert the flat head (-) screwdriver into the specified position and rotate the screwdriver to the LOCK position.



#### NOTE:

Rotate a flat-blade screwdriver to the lock position securely. If not, the operation of the CPU may become unstable.

## List of VGN-A Series (As of January, 2005)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-367-XX	VGN-A50B	VGN-A130*	VGN-A115B	VGN-A11C
	VGN-A60B	VGN-A130P*	VGN-A115S	VGN-A13CP
	VGN-A60PS*	VGN-A170*	VGN-A117S	VGN-A15CP
	VGN-A60S*	VGN-A170P*	VGN-A195EP	VGN-A15GP
	VGN-A70P	VGN-A190	VGN-A195HP	VGN-A15LP
	VGN-A70PS*		VGN-A197VP	VGN-A17GP
	VGN-A70S*		VGN-A197XP	VGN-A17LP VGN-A17SP VGN-A17TP VGN-A19CP
9-876-374-XX		VGN-A140*	VGN-A115M	VGN-A17CP
		VGN-A140B*	VGN-A115Z	VGN-A19GP
		VGN-A140P*		VGN-A19LP
		VGN-A150		VGN-A19SP
		VGN-A160		VGN-A19TP
		VGN-A190F		
9-876-387-XX	VGN-A51PS1*	VGN-A230*	VGN-A215M	VGN-A21C
	VGN-A51PS2*	VGN-A230B*	VGN-A215Z	VGN-A23CP
	VGN-A51S1*	VGN-A230P*	VGN-A217M	VGN-A29CP
	VGN-A51S2*	VGN-A240*	VGN-A217S	VGN-A29GP
	VGN-A61B	VGN-A240B*	VGN-A295HP	VGN-A29LP
	VGN-A71PS*	VGN-A240P*	VGN-A297XP	VGN-A29SP
	VGN-A71S*	VGN-A250		VGN-A29TP
	VGN-A260			
	VGN-A270*			
	VGN-A270B*			
	VGN-A270P*			
	VGN-A290			
	VGN-A290F			

\* : CTO Model

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-401-XX	VGN-A62B	VGN-A600*	VGN-A317M	
	VGN-A72PB	VGN-A600B*	VGN-A317S	
	VGN-A72PS1*	VGN-A600P*	VGN-A397XP	
	VGN-A72PS2*	VGN-A690		
	VGN-A72S1*			
	VGN-A72S2*			

\* : CTO Model

→ : Additional Models

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## Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2004.12.27	First Edition	
-02	Ver.2	2005.01.13	 <b>Front Page (Model Line Up), Page 3, Page 1-2, Page 4-1, Page 4-3, Page 4-5_9, Page 4-11, Page 4-13_17, Back Cover</b>	N2004_141AK
-03	Ver.3	2005.01.24	 <b>Front Page (Model Line Up), Page 3, Page 1-1, Page 1-5, Page 1-6, Page 4-1, Page 4-1_3, Page 4-5_7, Page 4-9, Page 4-11, Page 4-13_17, Back Cover</b>	N2004_148AK
<b>&lt; Remarks &gt;</b>				